#### **Sampling**

Samplers - Solid

### Samplers, Single Use Disposable



Suitable for all industries (pharmaceutical, food, chemical, cosmetic, biotechnology, etc). Pre-sterilised versions available. Length 1000 or 500 mm, diameter 21 mm.

- · Never have to be cleaned
- · Cross-contamination risk is eliminated
- · Assembled in a cleanroom environment
- · Economical save time and money

Packaging: Each sampler is individually bagged, 20/box.

#### Disposable PowderThief for sampling powders and granules

Description	Sterile	Pk	Cat. No.
HDPE, 500 mm, tip size 1 ml	-	20	300-2028
TIDFE, 300 IIIIII, up size Tilli	+	20	300-2029
HDPE, 500 mm, tip size 5 ml	-	20	300-2030
HDPE, 500 Hill, up size 5 Hil	+	20	300-2031
HDDE 500 mm tip size 10 ml	-	20	300-2018
HDPE, 500 mm, tip size 10 ml	+	20	300-2019
HDPE, 500 mm, tip size 20 ml	-	20	300-2020
	+	20	300-2021
LIDDE 1000 III I I	-	20	300-2022
HDPE, 1000 mm, tip size 1 ml	+	20	300-2023
LIDDE 1000 mm tip size 5 ml	-	20	300-2024
HDPE, 1000 mm, tip size 5 ml	+	20	300-2025
LIDDE 1000 mm tip size 10 ml	-	20	300-2016
HDPE, 1000 mm, tip size 10 ml	+	20	300-2017
LIDDE 1000 mm tip size 20 ml	-	20	300-2026
HDPE, 1000 mm, tip size 20 ml	+	20	300-2027

#### Disposable LiquiThief for sampling low viscosity liquids (eg. water)

Description	for volume (ml)	Sterile	Pk	Cat. No.	
HDPE, 500 mm	100 —	-	20	300-2002	
	100 —	+	20	300-2003	
PP, 500 mm	100	-	20	300-2005	
HDPE, 1000 mm	190 —	-	20	300-2000	
	190 —	+	20	300-2001	
PP, 1000 mm	190	-	20	300-2004	

#### Disposable ViscoThief for sampling creams and gels

Description	for volume (ml)	Sterile	Pk	Cat. No.
HDPE, 500 mm	100 —	-	20	300-2012
	100	+	20	300-2013
PP, 500 mm	100	-	20	300-2015
HDPE, 1000 mm	190 —	-	20	300-2010
	190 —	+	20	300-2011
PP, 1000 mm	190	-	20	300-2014

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### Sampling

Samplers - Solid

### Sampler, StickProof



Made of stainless steel. Sampler for powders in the pharmaceutical industry. The conical inlet of the tip lets you collect a variable sample size. StickProof is constructed in one piece without edges, grooves or crevices for perfect and easy cleaning. The sample can be filled directly into the sampling bag and fastened with a sturdy clamp.

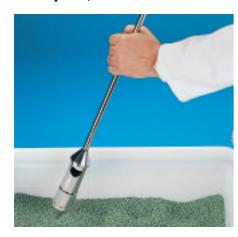
StickProof: Length 410 mm,  $\emptyset$  25 mm; boring  $\emptyset$  20 mm, length of the chamber 120 mm, sampling bags: 170x120 mm.

- The especially slender tip can be inserted easily and deeply
- Surface electropolished
- Variable sample size of up to 50 ml

Delivery Information: Complete with clamp and 100 sampling bags PE

Description	Pk	Cat. No.	
StickProof	1	312-1176	•

### Sampler, SiloPicker



Made of stainless steel the SiloPicker takes samples of bulk goods. The insert depth depends on the density of the bulk goods. Standard length is 1 m. Inserting the SiloPicker into the bulk goods automatically closes the collection container. When the sampling depth has been reached, the sampling container is filled, and the SiloPicker can be withdrawn.

Easy handling

Description

 With the extension rod it is possible to take samples of bulk goods at a depth of up to 3.5 m

SiloPicker	1	300-1025	
Accessories			
Description	Pk	Cat. No.	
Extension rod 50 cm	1	300-1026	
Extension rod 100 cm	1	300-1037	

### Zone Samplers



For sampling bulk goods of all types. The big advantage of the zone sampler is that cross-sectional samples can be collected from all layers of a container. Using the zone sampler, very different kinds of bulk goods can be collected, from the finest powder up to coarse grains, such as corn or nuts. The zone samplers are available in 3 lengths:

- 55 cm for sacks;
- 85 cm for barrels, drums and mixing containers;
- and 150 cm for bags, silos and tanks.

Special lengths are available on request.

Three types of zone samplers are available:

- Multi-sampler with several closed chambers for multi-target samples from several different sample depths
- Uno-sampler with one closed chamber for a targeted sample from a specific sample depth
- All-layer sampler and Jumbo sampler with open inner tube, no chambers, for cross-sectional samples throughout all layers of sampling material. Emptying is simple via the open end of the sampler tube. The Jumbo sampler with a 50 mm tube diameter is ideal for larger grain sizes and quantities

All samplers have the smallest possible gap between inner and outer tube.

- Easy to clean, removable tip
- Colour coding (Multi- and Uno-samplers)
- Ultrapure materials: stainless steel/PTFE
- 3 lengths from 55 mm to 150 cm
- · Excellent finishing, robust construction

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300.2

#### **Sampling**

#### Samplers - Solid

	Length	Imm. depth					
Description	(mm)	(mm)	Chambers	Volume (ml)	Ø (mm)	Pk	Cat. No.
	55	430	3	14	25	1	312-1111
Multi-sampler, aluminium	85	710	3	17	25	1	312-1112
_	150	1355	5	17	25	1	312-1113
Multi-sampler, stainless	55	430	3	14	25	1	312-1101
steel/PTFE	55	430	1	17	25	1	312-1131
Uno-sampler, stainless steel/PTFE	85	710	1	17	25	1	312-1132
All lover complex	55	430	3	70	25	1	312-1183
All-layer sampler, - aluminium -	85	710	3	130	25	1	312-1185
alullillillilli -	150	1355	5	260	25	1	312-1184
Jumbo-sampler, aluminium -	850	710	3	880	50	1	312-1121
Jumbo-sampier, aluminium –	1500	1355	5	1700	50	1	312-1122

#### **Accessories**

Description	Pk	Cat. No.	
Case for transport	1	312-1141	
Tube cleaning brush 25 mm Ø. 1 m	1	331-2170	•

#### Ice Borer



Stainless steel. Ideal both for deep-frozen products in the food industry and semi-solid substances. The sharp sawing crown of the very robust hollow borer rapidly cuts into the sample. A cylindrical sample (cross-sectional sample) with a diameter of 18 mm and a length of up to 20 cm can be cut out. Consists of three parts: borer, borer head for use in conventional drills and rod for pressing the cylindrical sample out of the borer head. Diameter ext. 21 mm, diameter int. 18 mm.



- Can be sterilised
- Very sharp
- Complete with case

Description	Pk	Cat. No.	
Ice borer complete	1	312-0072	

### Ice Sampler



Developed for sampling from frozen materials and similar substances. The Ice Sampler screws into the sample material and simultaneously extracts and conveys the sample into the sampling cylinder. The Sampling cylinder is detachable. The Ice Sampler is electropolished and does not have any flutes for perfect and easy cleaning.



- Sterilisable
- Electropolished
- Simple cleaning

Description	Pk	Cat. No.
Ice Sampler complete, 300 mm	1	300-1047
Ice Sampler complete, 550 mm	1	300-1048
Ice Sampler complete, 1050 mm	1	300-1049

#### Accessories

Description	Pk	Cat. No.
Transport case 300 mm	1	300-1050
Transport case 500-1050 mm	1	312-0071

### Sampling

Samplers - Solid

### Control Seal, close-it®



312-1151



In contrast to normal labels, 'close-it' adheres well to sacks that are coated with powder (plaster, flour etc.) 'close-it' is a self-adhesive seal with aluminium backing, which adheres very firmly. Sacks, cartons, etc. which have been pierced and sampled by Powder-Proof (or other samplers) can be hermetically re-sealed. The sampling date, the name of the quality supervisor and other information can be written on the seal with pen, pencil or felt-tip pen. 1 roll contains 500 stickers.

- · Adheres very firmly
- · Can be written on
- Size: 95x95 mm

Description	Pk	Cat. No.	
Printed red	1 Roll	312-1151	•
Printed green	1 Roll	312-1152	•
Printed yellow	1 Roll	312-1153	•
Printed black	1 Roll	312-1154	•
Unprinted white	1 Roll	312-1155	•

#### Accessories

Description	Pk	Cat. No.	
Dispenser 95x95 mm	1	312-1156	

### Sterile Sample Bottles for Water Testing



**VWR** 



#### **HDPE**

The flasks are dosed with sodium thiosulphate, which inhibits the effects of chlorine, bromine and ozone present in the water when the sample is taken. Square bottles for more efficient storage (apart from 250 ml bottles rectangular). Shelf life: 2 years



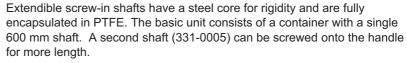
- Dosage in compliance with standards: 20 mg/l French standard NFT90-400, 100 mg/l ISO 5667-3
- · Sodium thiosulphate in powder form
- Tamper evident closure which guarantees the sterility of the bottles prior to

Capacity (ml)	with	Сар	Packed	Pk	Cat. No.	
250	5 mg Na₂S₂O₃	Sealed screw cap	Bulk	312	331-3407	•
230	5 mg Na₂S₂O₃	Sealed screw cap	Individually	200	331-3408	•
500	10 mg Na₂S₂O₃	Sealed screw cap	Bulk	100	331-3411	•
300	10 mg Na₂S₂O₃	Sealed screw cap	Individually	100	331-3412	•
1000	20 mg Na₂S₂O₃	Sealed screw cap	Bulk	84	331-3417	•
1000	20 mg Na₂S₂O₃	Sealed screw cap	Individually	84	331-3402	•
500	10 mg Na₂S₂O₃	Hinged cap	Bulk	100	331-3403	•
500	10 mg Na₂S₂O₃	Hinged cap	Individually	100	331-3405	•

### Sample Dippers



#### PTFE, inert





• Temperature resistant; suitable for use at high and low temperatures (-200 to +280 °C)

Description	Capacity (ml)	Pk	Cat. No.	
Dipper, Ø 54 mm	100	1	331-0006	•
Dipper, Ø 66 mm	250	1	331-0007	•
Dipper, Ø 80 mm	500	1	331-0008	•
Dipper, Ø 100 mm	1000	1	331-0009	•
Replacement/extension shaft	-	1	331-0005	•

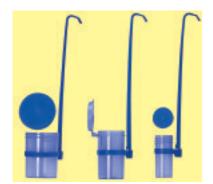
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#### Sampling

Samplers - Fluid

### Sample Dippers





All sample dippers are made of blue polypropylene and consist of a bottle with snap handle. Available with either hinged or screw cap.



- · Containers designed for sample collection and dispatch for testing in the same container, eliminating cross contamination risks
- · Gamma-sterilised and individually packed in sealed zip bag to guarantee integrity of sample

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Description	Capacity (ml)	Pk	Cat. No.	
<u> </u>	40	250	331-3414	•
Screw cap	125	100	331-3416	•
	180	100	331-3415	•
Hinged cap	90	150	331-3413	•

### **Chemistry Scoop**



For aggressive liquids, with fixed rod, parts coming into contact with sample-media made of PP.

- Three sizes
- Rod length 100 cm
- Without metal

Description	Capacity (ml)	Pk	Cat. No.	
	250	1	331-2110	•
Chemistry Scoop	500	1	331-2111	•
	1000	1	331-2112	•

### **TeleScoop**



Ideal for sampling from pools, tanks, manholes, surface water. Suitable for deep and narrow shafts. The telescopic rod is aluminium and can be equipped with 4 different snap-on scoops for various applications. The angle between the telescopic rod and beaker can be adjusted through 90°. Pendulum beaker, 1000 ml. Irrespective of the rod angle, the beaker always assumes a vertical position. Bottle holder for all bottles up to 95 mm dia.

- · Telescopic rods are fully adjustable
- · Pendulum beaker allows for none of the contents to be lost







Description	Pk	Cat. No.	
Telescopic rod, 0.6-1.2 m	1	300-0037	•
Telescopic rod, 1-3 m	1	300-0039	•
Telescopic rod, 1.5-4.5 m	1	331-2143	•
Angular beaker, 500 ml	1	331-2130	•
Angular beaker, 1000 ml	1	331-2131	•
Angular beaker, 2000 ml	1	331-2132	•
Pendulum beaker, 500 ml	1	331-2120	•
Pendulum beaker, 1000 ml	1	331-2121	•
Pendulum beaker, 2000 ml	1	331-2122	•
Bottle holder	1	331-2145	•

### Sampling

Samplers - Fluid

### Sampler for Liquids, LiquiSampler



Made of ultra-pure and chemically inert PTFE/FEP for contamination-free sampling. Sampling from open and closed barrels, vats, tanks, silos, open waters (ponds, streams, lakes, rivers). Fits all commercially available vats and barrels with openings of at least 25 mm diameter. Easy to clean as all surfaces are free of pores and crevices, preventing accumulation of dirt. Colour coded push-buttons in red, blue, green, yellow, white and black. 250 ml containers.

- · Disassembly and cleaning is extremely simple
- Easy-to-use one-hand push-button operation
- Transparent
- · Suitable for point sampling, cross-sectional sampling, bottom sampling

According to DIN 53 242

Description	Pk	Cat. No.	
LiquiSampler, PTFE/FEP, 1 m	1	331-2150	•
LiquiSampler, PP, 1 m	1	331-2152	•

#### Accessories

Description	Pk	Cat. No.	
Tube cleaning brush 25 mm Ø, 1 m	1	331-2170	•

### Sampler, MiniSampler



The single-use, flexible, suction hose can be quickly replaced, thus ensuring that the samples are never contaminated. If necessary, a new hose can be used for every single sample. Due to its small diameter (8 mm) and flexibility the hose can reach sampling areas which are otherwise inaccessible.

- · Can be used with oils
- · Various accessory bottle sizes available

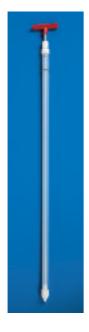
**Delivery Information:** Supplied complete with 10 bottles PE 100 ml in a stable case.

Description	Pk	Cat. No.	
MiniSampler PE complete	1	300-1021	•

#### Accessories

Description	Pk	Cat. No.	
Suction hose, PE, Ø 6 mm, wall thickness 1 mm	100 m	300-1045	•

### Sampler, ViscoSampler



Made of transparent PP or ultra-pure and chemically inert PTFE/FEP for contamination-free sampling. The media is drawn up and discharged using the suction flask. Specially developed for viscous substances, for example, slurries, silt, wet clay and soil samples, soil sediments, oils, emulsions, creams etc. Colour coded handles are available in red, blue, green, yellow, white and black, avoid confusion. Easy cleaning: All surfaces are poreless and without crevices. Only round threads tried and tested in food hygiene are employed.

- Powerful suction for viscous media
- · No dirt accumulation
- · Dissembling and cleaning is very easy

Description	Pk	Cat. No.	
ViscoSampler, PTFE/FEP, 1 m	1	331-2160	•
ViscoSampler, PP, 1 m	1	331-2162	

#### Accessories

Description	Pk	Cat. No.	
Tube cleaning brush 25 mm Ø, 1 m	1	331-2170	•
Extension rod	1	331-2171	

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#### Sampling

Samplers - Fluid

### Sampler with Hose and Hose Weight, Stainless Steel, UniSampler



The heavy stainless-steel tube brings the hose to any desired depth. The suction hose is made of PVC and 2.50 m long. Operation: lower the suction hose into the medium, attach the sampling bottle to the adapter, create a vacuum using the handpump and collect the sample, remove the filled sampling bottle, close and label.

- Sampler for deep, narrow and hard-to-reach spots
- The samples are collected using a handoperated vacuum pump and transferred directly into the sampling bottle to ensure sampling purity
- Easy handling

**Delivery Information:** Supplied complete in case with sample bottle, hose, handpump and 20 labels.

Description	Pk	Cat. No.	
UniSampler with tube	1	300-1042	•
Accessories			
Description	Pk	Cat. No.	
Sample bottle 1000 ml	1	300-1018	•
Spara DVC hose 2.50 m long	1	300-10//3	

### **Dipping Bottle Ex**



Made of spark suppressing metals (brass, lead). Bottle is 80 mm  $\varnothing$ , 350 mm high. Without lowering cable.



Cat. No. 300-1035

- · For sampling flammable liquids
- Easy handling

Acc. DIN 51 750

Dipping bottle Ex

Description

Accessories			
Description	Pk	Cat. No.	
Lowering cable, stainless steel, conductive, Ø 2.3 mm, length 10 m	10 m	300-1040	

### **Dipping Vessel**



Made of chrome-plated brass or stainless steel. 1 I capacity, 75 mm  $\emptyset$ , 380 mm high. Lowering cable must be ordered separately.

- For withdrawing liquids from tanks, tanker lorries, etc.
- Easy handling

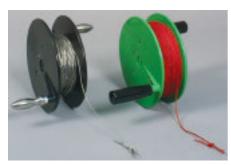
Acc. DIN 51 750

Description	Pk	Cat. No.	
Dipping vessel, chrome plated brass	1	300-1033	
Dipping vessel, stainless steel	1	300-1034	

### Sampling

Samplers - Fluid

### **Manually Operated Reel, Conductive**



#### PA

Specially designed for use with flammable liquids of hazard class AIII (VbF). Should only be used in combination with an electrically conductive lowering cable or chaintype cable. Please order your required lowering cable separately. Reel diameter 100 mm, total diameter 180 mm.

- High winding capacity
- Width 50 mm

Description	Pk	Cat. No.	
Manually operated reel "Ex" without cable	1	300-0015	

### Bottles, Water Sampling, Narrow Mouth with Screw Cap

#### HDPE, translucent with red screw cap

Space saving square bottles.

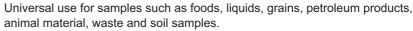
- Capped ionised (10 KGray)
- Excellent shock resistant
- Excellent tightness

Capacity	Neck I-Ø	WxDxH					
(ml)	(mm)	(mm)	Colour	with	Pk	Cat. No.	
1000	28	82x82x182	natural	Assembled tamper-evident screw cap	84	215-2288	
1000	20	021021102	Haturai	with shaped seal	04	213-2200	

### **Twist-Seal Bags**



### LDPE bags, manufactured and packaged in sterile conditions



- · Wire tab keeps bag open for filling
- Unique fold over system providing a temporary leak-proof seal

VWR 🐔

### Double regular wire, without write-on panel

Capacity (ml)	Dimensions (mm)	Pk	Cat. No.	
60	76x127	500	129-9831	•
120	76x178	500	129-9832	•
450	114x190	500	129-9833	•
540	114x229	500	129-9834	•
720	140x229	500	129-9837	•
810	114x305	500	129-9835	•
1080	114x382	500	129-9836	•
1260	140x382	500	129-9838	•
1650	178x305	250	129-9839	•

#### Double regular wire, with write-on panel

Capacity (ml)	Dimensions (mm)	Pk	Cat. No.	
60	76x127	500	129-9842	•
120	76x178	500	129-9843	•
540	114x229	500	129-9844	•
720	140x229	500	129-9846	•
810	114x305	500	129-9845	•
1650	178x305	250	129-9847	•

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#### Sampling

#### **Bags and Swabs**

#### Flat regular wire, without write-on panel

Capacity (ml)	Dimensions (mm)	Pk	Cat. No.	
120	76x178	500	129-9850	•
540	114x229	500	129-9851	•
810	114x305	500	129-9852	•
720	140x229	500	129-9854	•
1080	114x382	500	129-9853	•
1260	140x382	500	129-9855	•
1650	178x305	250	129-9856	•
1800	254x305	250	129-0012	•
3000	254x382	250	129-0013	•

#### Flat regular wire, with write-on panel

Capacity (ml)	Dimensions (mm)	Pk	Cat. No.	
120	76x178	500	129-9859	•
540	114x229	500	129-9860	•
720	140x229	500	129-9862	•
810	114x305	500	129-9861	•
1650	178x305	250	129-9863	•
1800	254x305	250	129-0010	•
3000	254x382	250	129-0011	•

### **Pressure Seal Bags**



Resealable pressure seal bag for storing and protecting food and all kinds of small parts and spare parts.

- · Can be resealed repeatedly, flexible and tear-proof
- · Suitable for use with food
- Transparent material means contents are clearly visible
- Simple sealing with guide tracks on the pressure seal

Description	Pk	Cat. No.	
LDPE, 80x120 mm	100	129-9142	•
LDPE, 100x150 mm	100	129-9143	•
LDPE, 120x170 mm	100	129-9144	•
LDPE, 160x220 mm	100	129-9145	•
LDPE, 180x250 mm	100	129-9146	•
LDPE, 300x400 mm	100	129-9147	•
PE, 200x300 mm	100	129-9136	•
PE, 250x350 mm	100	129-9137	•
HDPE, 220x310 mm	100	129-9154	•

# Sample Bags





#### **LDPE**

Ideal for small lab items, botanical samples and other specimens. Not recommended for storing liquids.

- Strong, transparent and waterproof
- Heavy-duty zipper seals contents

Thickness: 0.1 mm

Description	Pk	Cat. No.	
102x152 mm	50	216-8121	•
127x203 mm	50	216-8122	•
152x330 mm	50	216-8123	•
229x330 mm	50	216-8124	•
229x457 mm	50	216-8125	•

### Sample Bags, Minigrip with "Kangaroo-pocket"



· Additional pocket (170 mm) for documents

Thickness: 50 µm

Description	Pk	Cat. No.	
Bags, 160x220 mm	1000	129-2014	•

### Sampling

**Bags and Swabs** 

### **Bags**



#### PΕ

Self-seal with white panels, 200 gauge.

Description	Pk	Cat. No.	
Bag, 57x57 mm	1000	129-0916	•
Bag, 89x114 mm	1000	129-0917	•
Bag, 102x140 mm	1000	129-0918	•
Bag, 152x229 mm	1000	129-0919	•

### Specimen Bags, Mini-grip, Biohazard



#### PF

Specimen bags with front compartment for specimen (150x140 mm) and back pocket for report.

- Thumb and fingers press seal across upper section
- Plain for own labelling or printed with biohazard symbol

WxH (mm)	Pk	Cat. No.	
150x140	500	129-0412	
150x140	500	129-0342	•

### **Storage Bags**

#### Clear PE, plain

Heavy duty storage bags, 500 gauge. Suitable for heat sealing.

WxH (mm)	Pk	Cat. No.	
150x200	100	300-0045	
255x355	50	300-0046	•
355x510	50	300-0047	•
455x760	50	300-0048	•

### VWR Critical Swab®, Foam-over-cotton Head Swabs





149-0336

Disposable foam-over-cotton tip swab features 100% polyurethane foam with 100 ppi and a wooden shaft.

- Combine the benefits of foam and cotton head swabs
- · Foam exterior resists abrasion and most solvents
- Cotton core is highly absorbent

Model	149-0336	149-0335
Head width (mm)	9.5	6.4
Head length (mm)	23.8	19.1
Handle width (mm)	2.5	2.5
Handle length (mm)	152	152
Total length (mm)	176	171

Description	Pk	Cat. No.	
Foam-over-cotton head	500	149-0336	•
Small foam-over-cotton head	500	149-0335	•

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Fax: 01455 55 85 86 Web: http://uk.vwr.com

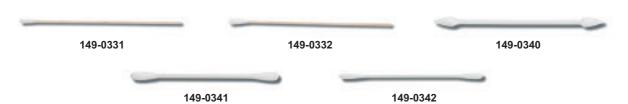
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#### Sampling

**Bags and Swabs** 

### VWR Critical Swab®, Cotton Head Swabs





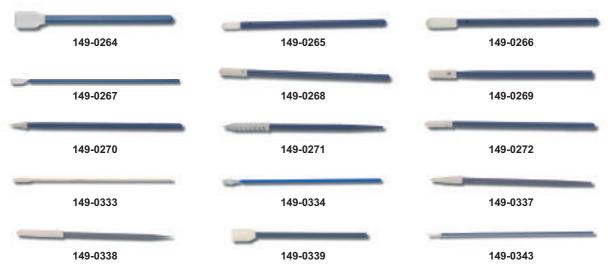
- · Highly absorbent
- Low-linting formulations reduce contamination
- Economical

Model	149-0342	149-0340	149-0341	149-0331	149-0332
Head width (mm)	3.2	4.7	4.4	4.8	5.9
Head length (mm)	14	11	15	15.9	17.4
Handle width (mm)	1.5	21.5	2.5	2.5	2.5
Handle length (mm)	75.5	82	78	152	152
Total length (mm)	89.5	93	93	168	170

Description	Pk	Cat. No.	
Double slim highly absorbent cotton heads, packaged in an anti-static leaf pack, white	2500	149-0342	
Double cone-shaped, highly absorbent cotton heads, packaged in an anti-static leaf pack, white	1250	149-0340	•
Double, highly absorbent cotton heads, packaged in an anti-static leaf pack, white	2500	149-0341	•
Absorbent cotton tip and wooden shaft, autoclavable	1000	149-0331	•
Large absorbent cotton tip and wooden shaft, autoclavable	500	149-0332	•

### VWR Critical Swab®, Foam Head Swabs





The VWR Critical Swab<sup>®</sup> line includes foam head swabs, cotton head swabs, and foam-over-cotton head swabs, suitable for a wide variety of applications. Swabs feature 100 ppi open or closed cell polyurethane foam with 100% virgin polypropylene handle. Swab heads are thermally bonded to the handle without using adhesive. Some have a blue glass-filled polypropylene shaft for extra rigidity, specially for use in critical environments.

- Ideal for use in controlled environments
- · Withstand most widely used solvents
- Nonabrasive to protect delicate components

#### Sampling

#### **Bags and Swabs**

Model	Head width (mm)	Head length (mm)	Handle width (mm)	Handle length (mm)	Total length (mm)
149-0343	1.8	14.6	2.4	161	173
149-0272	3.2	20	2.2	59.7	79.7
149-0271	3.4	20	2.5	50	70
149-0268	3.4	10.5	2.4	57.5	68
149-0270	3.5	10	3.0	79	89
149-0269	3.6	12	3.0	59	71
149-0338	3.6	25.4	2.5	82.8	108
149-0337	3.9	17.5	2.5	83	100
149-0333	4.8	17.4	2.5	152	170
149-0265	4.8	12	4.3	93	105
149-0334	4.8	15.1	3.1	152	167
149-0267	6.2	17	3.2	146	163
149-0266	7	21	4.3	93	114
149-0339	13.5	25.4	5	130	152
149-0264	15	25	6.6	106	131

Description	Pk	Cat. No.	
Fine-point reticulated foam head with a blue glass-filled polypropylene shaft	500	149-0343	
Micro foam head (open)	500	149-0272	•
Medium pointed compressed foam head (open)	500	149-0271	
Small foam head with flexible tip (open)	500	149-0268	•
Mini pointed compressed foam head (open)	500	149-0270	•
Small foam head (open)	500	149-0269	•
Medium flexible foam head with a nylon handle (closed)	500	149-0338	
Cone-shaped reticulated foam head with a blue glass-filled polypropylene shaft	500	149-0337	
Foam head with a wooden shaft	500	149-0333	•
Extended-length reticulated foam head, handle end pointed for dual use, with a blue glass-filled polypropylene shaft	100	149-0265	•
Paddle-shaped foam head	500	149-0334	•
Medium foam head (open)	500	149-0267	•
Large flexible foam head (closed)	100	149-0266	•
Large rectangular foam head	500	149-0339	•
Large rectangular foam head (closed)	100	149-0264	•

### **Transport Swabs**





A range of collection and transport devices for bacterial specimens. Available with different applicators and transport media. Shipment in aluminium packaging under nitrogen ensures longer shelf life.



- A wide range of bacteria can survive for 24-48 hours on the applicator and in the tube
- Proven in many studies with aerobic and anaerobic organisms
- Each swab system is individually wrapped in a pouch with a tamper-proof seal, which turns white when opened

Meets the highest level of classification for medical products: Class IIa - surgical-invasive, short-term application, for taking samples from natural orifices and surgical wounds.

Description	Pk	Cat. No.	
Swab, plastic/viscose, Amies gel	50	710-0432	•
Swab, aluminium/viscose, Amies gel	50	710-0433	•
Swab, plastic/viscose, Amies gel with charcoal	50	710-0434	•
Swab, aluminium/viscose, Amies gel with charcoal	50	710-0435	•
Swab, twisted aluminium/viscose, Amies gel	50	710-0436	
Swab, twisted aluminium/viscose, Amies gel with charcoal	50	710-0437	•
Swab, plastic/viscose, Amies liquid	50	710-0438	•
Swab, aluminium/viscose, Amies liquid	50	710-0439	
Swab, twisted aluminium/viscose, Amies liquid	50	710-0440	
Swab, plastic/viscose, Stuart liquid	50	710-0441	•

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#### Sampling

**Bags and Swabs** 

### Swab Systems, M40





The M40 swab system with transport medium improves recovery and ensures the survival of even the most fastidious microorganisms.



- Compliant with NCCLS standards at room temperature and 4 °C
- · Without charcoal

Delivery Information: Comprises plastic indicator, rayon tip and Amies gel.

Description	Pk	Cat. No.	
M40 swab	50	710-0442	•

### **Swabs with Transport Medium**



A range of collection and transport devices for bacterial specimens. Conform to the highest classification standard for medical devices: class IIa surgical type device for temporary, one-time use. For collecting samples from the natural orifices of the body and surgical scars. Available with a range of different applicators and transport media.

- Applicator and tube ensure viability of a wide range of bacteria for 24 to 48 hours
- Performance tested for an enormous range of aerobic and anaerobic organisms
- Each swab is packaged individually in a bag with a tamper-proof closure which turns white after opening

Description	Pk	Cat. No.	
Wood/cotton tipped, Amies gel	50	710-0424	
Wood/cotton tipped, Amies gel with charcoal	50	710-0425	
Wood/cotton tipped, Stuart gel with charcoal	50	710-0426	
Plastic/viscose, Stuart gel	50	710-0443	•
Wood/cotton tipped, Stuart gel	50	710-0444	
Aluminium/viscose, Stuart gel	50	710-0445	•
Plastic/viscose, Stuart gel with charcoal	50	710-0446	
Plastic/alginate, Amies gel	50	710-0447	
Plastic/viscose Cary-Blair gel	50	710-0449	•





#### Sampling

**Bags and Swabs** 

#### **Swabs**





#### Simple swabs in tubes

High-quality polypropylene suitable for medical uses guarantees that all swab tubes are non-toxic and have low moisture permeability.

- Sterile
- Each tube has a tamper-proof cap
- The batch number, expiry date and the full designation are printed on each tube

Description	Pk	Cat. No.	
Wood/cotton	100	710-0181	•
Aluminium/alginate	100	710-0184	
Plastic/alginate	100	710-0429	•
Aluminium/viscose	100	710-0430	•
Wood/cotton, charcoal	100	710-0456	
Plastic/viscose	100	710-0457	•
Wood/carded cotton	100	710-0458	•
Twisted aluminium/viscose	100	710-0461	•
Plastic/polyester, ATP-free	100	710-0462	•

#### Simple swabs in peel packs

- · Individually sterile packed
- · Available in various combinations

Description	Pk	Cat. No.	
Plastic/polyester	1000	710-0459	
Plastic/viscose, 2 per peel pouch	1000	710-0460	
Plastic minitip/viscose	100	710-0463	
Plastic minitip/polyester	100	710-0464	
Wood/cotton	1000	710-0185	•
Plastic/viscose	1000	710-0186	•
Aluminium/viscose	1000	710-0187	•

### Swab Rinse Kit, SRK



SRK is an acronym for Swab-Rinse Kits. Swabbing is one of oldest and most widely used methods for microbiological examination of surfaces. When swabs are used together as a kit with a tube of solution to pre-moisten the swab before sampling and then to transport and rinse the swab after sample collection, it is an effective method for the detection and quantification of microorganisms. SRK Rinse Solution is an isotonic salt solution with additional substances to neutralise and inactivate disinfectants and sanitising agents

 Ideal for quantification of microorganisms with transport at room temperature

#### Short SRK Swabs (Rayon tip, attached to the tube cap)

Each box contains 50 screw cap tubes. Swab applicators are attached to the tube caps.

Description	Packed	Pk	Cat. No.	
SRK Rinse Solution, 10 ml	Single wrapped in plastic peel pouch	50	710-0477	•
SRK Rinse Solution, 10 ml	50 tubes/ box	50	710-0478	•

### Long SRK Swabs (14.6 cm - Separate from cap)

Each box contains 25 pouches (each containing a tube and applicator). Swab applicators are separate from cap.

Description	Packed	Pk	Cat. No.	
SRK Rinse Solution, rayon, 10 ml	Tube and applicator in plastic peel pouch	25	710-0472	•
SRK Rinse Solution, alginate, 10 ml	Tube and applicator in plastic peel pouch	25	710-0473	
SRK Rinse Solution, alginate, 2.5 ml	Tube and applicator in plastic peel pouch	25	710-0476	
SRK Rinse Solution, rayon, 2.5 ml	Tube and applicator in plastic peel pouch	25	710-0431	•

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300.14



#### **Sampling**

#### **Bags and Swabs**

#### Large SRK Swabs (19.50 cm long - Separate from cap)

Each box contains 25 pouches (each containing a tube and applicator). Swab applicators are separate from cap.

Description	Packed	Pk	Cat. No.
SRK Rinse Solution, Fiber tip rayon, 10 ml	Tube and applicator in plastic peel pouch	25	710-0474
SSK - Square Sampling Kit, Fiber tip rayon, 10 ml	Tube, large applicator & sterile 10x10 cm	1 Kit	710-0475
33K - Square Sampling Kit, Fiber tip rayon, To mi	template mask in sterile peel pouch	1 Kit	710-0473

#### **SRK Foam Spatulas**

Small spatula attached to cap. Large foam spatula, 22 cm long (612-2678).

Description	Packed	Pk	Cat. No.	
SRK Rinse Solution, 10 ml	In plastic peel pouch	50	612-2679	•
SRK without medium	In plastic peel pouch	50	612-2680	
SRK, large, without medium	In plastic peel pouch	120	612-2678	

#### **SRK 471**

1 Tube + 8 plain swabs in tube, blue applicator in minigrip pack.

Description	Packed	Pk	Cat. No.	
SRK Rinse Solution, rayon, 10 ml	6x25 minigrips per case	150	710-0479	

### Swabs, Steriswabs®



Blue plastic shafted swabs, with 45 mm breakpoint, dry or pre-moistened with sterile diluent, designed for effective monitoring of sterility and contamination in clinically clean or sterile work areas.



- Available in labelled tube or peel pouches
- Triple wrapped and radiation sterilised

Description	Pk	Cat. No.	
Steriswab, blue plastic shaft, labelled tube	250	720-0142	•

### Swabs, dry



Available with various applicators and packaging: wood, plastic, straight or twisted wire applicators.



· Suitable for all requirements

Description	Pk	Cat. No.
Wood stick, peel pouch, charcoal	1250	720-2200
Wood stick, peel pouch	800	720-2203
Fine tip, plastic stick, labelled tube	100	720-0122
Plastic stick, labelled tube	100	720-0124
Flastic stick, labelled tube	800	720-0123
Wood stick, labelled tube	100	720-0126
Wood stick, labelled tube	800	720-0125
ENT, straight wire, labelled tube	100	720-0133
Pernasal, twisted wire	100	720-0137
Wood stick, peel pouch	1250	720-0127
Wood stick, 5/pouch	2500	720-0128
Plastic stick, peel pouch	1250	720-0129
Plastic stick, fine tip, peel pouch	125	720-0130
Wood stick, bulk, nonsterile for autoclaving	5000	720-0131
Wood stick, bulk, sterile	5000	720-0132

### Sampling

**Bags and Swabs** 

### Sponge Swabs, Polywipe®

Non-inhibitory sponge material allows effective sampling of larger areas for environmental and hygiene monitoring. Available dry or pre-moistened with sterile diluent. Polywipes are supplied in peel pouches for immediate use, or in a 110 ml blue-capped container for transfer to the laboratory.



- · Blue colour for visibility
- Triple wrapped and radiation sterilised

**Delivery Information:** Supplied with individual sterile glove for handling.

Description	Pk	Cat. No.	
Polywipe, 110 ml container	30	720-0144	•
Polywipe, peel pouch	50	720-0145	•

### Swabs for Transport, Transwab®



Each transport tube contains 5 ml of Amie's clear or Amie's charcoal medium which enables deep sample immersion.

• Excellent recovery of both aerobic and anaerobic bacteria

**Delivery Information:** Each Transwab<sup>®</sup> unit consists of a sterile easy peel pack containing a plastic, duo or wire applicator with colour coded cap and prelabelled transport tube.

Description	Pk	Cat. No.	
Amies charcoal	125	720-2201	
Amies clear	125	720-2202	
Plain medium	125	720-0138	
Clear wet medium	125	720-0141	
Charcoal medium	125	720-0139	
ENT, straight wire, plain medium	125	720-0140	
ENT, straight wire, charcoal medium	125	720-0119	
Pernasal, twisted wire, plain medium	125	720-0121	
Pernasal, twisted wire, charcoal medium	125	720-0120	

### Swabs, Transport, Sterilin®



#### Plastic applicator, blue cap, rayon tip

Primarily intended for sample collection and transport of bacteria, these swabs contain media for the maintenance of bacteria during transport to the laboratory. The pouch seal turns white on opening, a visible sign of tamper evidence. Each batch of product is tested for performance using a wide range of aerobic and anaerobic pathogens to ensure adequate recoveries, together with sterility and other quality assurance tests.

- Applicator and tube will maintain the survival of a wide range of bacteria for 24-48 hours
- Unique nitrogen flushed aluminium inner bag with laminated film pouch prevent oxidation and dehydration of media
- Each tube is printed with lot number/expiry date and has a tamper evident sleeve, ensuring complete traceability and sterility
- CE marked as Class IIa in accordance with Medical Device Directive 93/42/EEC (for transient invasive use)

Description	Pk	Cat. No.	
Transport swab, Amies	500	720-0026	•
Transport swab, Amies with charcoal	500	720-0027	

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#### Sampling

**Bags and Swabs** 

#### **Swabs**



High quality medical grade polypropylene ensures all swab tubes are non-toxic and have a low moisture permeability. Every swab has a tamper evident seal and is printed with lot number, expiry date and full description.



Supplied sterile

Description	Pk	Cat. No.	
Albumin coated	100	720-0059	
Plain swab, wood shaft, bulk	2500	720-0025	
Plain swab, twisted wire shaft	100	720-0063	

# e-business more than just a webshop

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#### **Cell Culture**

Incubators

### Incubators, Incu-Line





#### Temperature range ambient +5 to 70 °C, volumes 53 I and 115 I

Incubator with natural air circulation for all standard incubation applications.

- · Micro-processor control with large digital temperature display
- Temperature setting in increments of 0.1 °C
- Built-in timer from 0-999 minutes or 00.0-99.9 hours or continuous mode
- Protection against overheating with a visual alarm (safety thermostat K 3.1)
- Ventilation duct on the back of the unit with manually adjustable stop valve

Design: Inner glass doors, chamber made from stainless steel

Shelving: 2 chrome shelves

Safety: Protection against overheating with a visual alarm (safety thermostat K 3.1)

Technical data: Temperature accuracy: ± 0.2 °C; Weight: Incu-line 53; 45

kg, Incu-line 115: 68 kg Connection: Voltage 50/60 Hz, 230 V

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.
Incu-Line 53, UK plug	53	620x622x680	401x330x401	1	390-0351
Incu-Line 115, UK plug	115	820x732x760	600x480x400	1	390-0354

#### **Accessories**

Description	for	Pk	Cat. No.	
Chrome-plated shelf	DL 53 / VL 53 / IL 53	1	466-3522	•
Chrome-plated shell	DL 115 / VL 115 / IL 115	1	466-3523	•

### Small Incubators, B28 Binder



#### Temperature range 30 to 70 °C, volume 28 I

A compact device with hydraulic-mechanical control and adjustable ventilation for precise, reliable incubation conditions. Optimum temperature range at 37 °C.

- Robust and space-saving
- Inner glass door
- Available with or without independent temperature safety regulator TC class 1

Design: The housing is made from galvanised sheet steel and powder-coated throughout to afford maximum protection against corrosion.

**Control**: Hydraulic-mechanical thermostat with analogue dial thermometer.

Connection: 230 V, 50/60 Hz, 253 W

Technical data: Weight 22 kg

				Shelves			
	Inner volume	WxDxH ext.	WxDxH int.	supplied /			
Type B 28, without temperature	(I)	(mm)	(mm)	max.	Pk	Cat. No.	
B 28, without temperature	28	580x425x402	400x250x280	2/4	1	390-6032	
regulator TC class 1		000X120X102		217			
B 28, with temperature regulator	28	580x425x402	400x250x280	2/4	1	390-6033	
TC class 1		00004200402	+00X200X200	<b>2</b> / ¬		000 0000	

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#### **Cell Culture**

**Incubators** 

# Microbiological Incubators, with or without Forced Convection, BD and BF Series

Binder



#### Temperature range ambient +5 to 100 °C, volume 20 to 720 I

APT. line™ incubators distinguish themselves from all others due to their superior temperature accuracy. Two incubator versions are available depending on the application: The BD series with natural convection for all standard applications, the BF series with forced convection for applications with high load density and particularly fast temperature recovery times. The advantage of the BF series with forced convection is based on extremely precise temperature distribution within the incubator, even with high load density, and fast temperature recovery time after the door has been opened. APT.line™ incubators meet all quality requirements for uniform, reproducible incubation conditions. Their broad temperature range and high-performance equipment mean that the BD and BF series can be used for all incubation tasks in research, production and quality assurance.

- Temperature variation at 37 °C: ±0.5 °C (BD series), ±0.4 °C (BF series)
- Additional safety is provided with disinfection at 100 °C and easy operation
- High degree of temperature accuracy, and fast temperature recovery time after the door has been opened
- Adjustable fan speed (BF series)
- · Additional options and accessories

**Design:** Units up to 115 litres can be stacked on top of each other to save space.

**Shelves**: Supplied with 2 chrome-plated racks.

**Cleaning**: Easy to clean design. Residue-free cleaning of entire inner chamber and inner glass door.

**Safety**: Temperature safety device class 3.1, provides full protection against chamber over-temperature, with visual alarm.

**Controller:** Electronically controlled APT.line<sup>™</sup> preheating chamber, DS controller with integrated timer 0 to 99 h (BD series), MS controller with several timer functions such as 'Delayed OFF'and 'Delayed ON' (BF series) and adjustable ventilation by means of rear exhaust duct, Ø 50 mm with ventilation flap and front ventilation slide.

**Connections**: BD series has RS422 interface for communication software, switchable to printer output with RS 232/RS422 interface (BF series), nominal voltage 230 V.

**Calibrations** and validations possible, please enquire. Supplied with Binder test certificate.

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#### Models with natural convection

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.
BD 23	20	433x516x492	222x277x330	1	390-6146
BD 53 (E2)	53	634x575x617	400x330x400	1	390-6037
BD 115 (E2)	115	834x645x702	600x400x480	1	390-6039
BD 240 (E2)	240	1034x745x822	800x500x600	1	390-6041
BD 400 (E2)	400	1234x765x1022	1000x500x800	1	390-6034
BD 720 (E2)	720	1234x865x1528	1000x600x1200	1	390-6035

#### Models with forced convection

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
BF 53	53	634x575x617	400x330x400	1	390-0006	
BF 115	115	834x645x702	600x400x480	1	390-0007	
BF 240	240	1034x745x822	800x500x600	1	390-0008	
BF 400	400	1234x765x1022	1000x500x800	1	390-0009	
BF 720	720	1234x865x1528	1000x600x1200	1	390-0010	

**Incubators** 

**Cell Culture** 

#### **Accessories for Incubators**

#### Binder

#### **Shelves**

for	Material	Pk	Cat. No.	
ED/FD/BD/KB 23	Chrome-plated	1	390-6018	
E/B 28	Chrome-plated	1	390-6000	
ED/FD/FED/BD/KB/M/MK 53	Chrome-plated	1	390-6001	
ED/FD/FED/FDL/MDL/BD/KB/KBF/M 115	Chrome-plated	1	390-6002	
ED/FD/FED/BD/KB/KBW/KBWF/KBF/M/MK 240	Chrome-plated	1	390-6003	
ED/FED/BD/M 400	Chrome-plated	1	390-6004	
ED/FED/BD/KB/KBW/KBWF/KBF/M 720	Chrome-plated	1	390-6005	
ED/FD/BD/KB 23	Stainless Steel	1	390-6019	
ED/FD/FED/BD/KB/M/MK 53	Stainless Steel	1	390-6006	
ED/FD/FED/FDL/MDL/BD/KB/KBF/M 115	Stainless Steel	1	390-6007	
ED/FD/FED/BD/KB/KBW/KBWF/KBF/M/MK 240	Stainless Steel	1	390-6008	
ED/FED/BD/M 400	Stainless Steel	1	390-6010	
KB/KBW 400	Stainless Steel	1	390-6017	
ED/FED/BD/KB/KBW/KBWF/KBF/M 720	Stainless Steel	1	390-6009	

#### Perforated shelves, stainless steel

for	Pk	Cat. No.
ED/FD/BD/KB 23	1	390-0001
E/B 28	1	390-6011
ED/FD/FED/BD/KB/M/MK 53	1	390-6012
ED/FD/FED/FDL/MDL/BD/KB/KBF/M 115	1	390-6013
ED/FD/FED/BD/KB/KBW/KBWF/KBF/M/MK 240	1	390-6014
ED/FED/BD/M 400	1	390-6015
KB/KBW 400	1	390-0000
ED/FED/BD/KB/KBW/KBWF/KBF/M 720	1	390-6016

### Software, data logging, APT-COM™ 3 DataControlSystem Binder



With the APT-COM™ 3 DataControlSystem, Binder offers data communications software which fulfils all FDA regulations with respect to data safety. The structure of the programme interface is user-friendly and allows clear and easy recording of measurement values and data administration. APT-COM™ 3 DataControlSystem is fully network-compatible. All data is available at any time via intranet or internet. The current process parameters can be retrieved online as HTML-files. Measurement values can also be looked at from home at anytime. Alert messages only have to be transferred to preset telephone numbers including in the mobile network. According to the computer hardware configuration, with APT-COM 3™ up to 30 Binder laboratory instruments can be integrated and controlled using a standardised operator interface. The integration of APT-COM 3™ under LIMS (for instance with Labview) is also possible. The wealth of registering and monitoring

functions with variable graphs allows for safe working and complete logging of measurement data.

APT- COM™ 3 is available at three different performance levels:

- 1) Full Version for applications according to FDA Directive 21 CFR part 11 in the GLP/GMP range
- 2) Standard Version with restricted data safety features
- 3) Basic Edition for simple data logging

Characteristics of the GLP/GMP Version of APT-COM™ 3 DataControlSystem: Matches FDA Directive 21 CFR part 11 with respect to

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#### **Cell Culture**

#### **Incubators**

- · Individual user authorisation and identification through password protected access control or electronic signature
- Complete and detailed Audit Trail for all system interventions
- · Data storage with protection against manipulation
- Automatic data backup
- · Validability of overall system

Description	Pk	Cat. No.	
APT-COM™ 3 Full (GMP/GLP) Version software	1	390-0235	
APT-COM™ 3 Standard Version software	1	390-0233	
APT-COM™ 3 Basic Edition software	1	390-0234	

# Incubators, Natural Convection, INB, INE and INP Series Memmert



#### Temperature range: ambient +5 to 70, volumes 32 to 749 I

Stainless steel incubators with natural convection, which are available in different performance classes, BASIC, EXCELLENT or PERFECT.

BASIC 'INB' - the most inexpensive models

EXCELLENT 'INE' - for more exacting requirements

PERFECT 'INP'- perfection in temperature control and sterilisation with Steri-Card

For batches that are particularly heat-sensitive or valuable, the EXCELLENT or PERFECT range models are ideal. The incubators are equipped with large area, 4-sided, all-round heating and double doors (glass inner door, stainless steel outer door). The fresh air supply can be adjusted manually via the pre-heating chamber (electronically regulated on the PERFECT model with air valve controller). The units are equipped with dual over-temperature protection (multiple protection and class 3.1 on PERFECT models).

#### The BASIC model:

- Integral digital timer from 1 min. to 99 hr. 59 min.
- · LED display of setpoint and actual temperatures and remaining programme time
- PID controller

#### **EXCELLENT and PERFECT models:**

- Real-time weekly programme timer, ramp timer for 40 variable ramps, each from 1 min. to 999 hr.
- Long-term logging of all relevant data via 1024 kB ring buffer
- RS232 serial interface with 'Celsius' programming and logging software
- Adaptation of effective heating power depending on setpoint
- 2 High-grade platinum temperature sensors PT 100 in a 4-wire circuit for stable long-term transmission of measurement signals

#### The PERFECT model also features

- Printer interface
- 32 kB MEMory Card for programming and documenting up to 40 ramps
- STERICard with fixed programme for inner chamber sterilisation at 160 °C for 4 hours
- Manufacturers calibration certificate at 37 °C
- Visualisation of all process functions on the display, with additional language selection via set-up for alphanumeric text display

				Shelves		
	Inner			supplied /		
Туре	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.
BASIC INB 200	32	550x400x600	400x250x320	1/3	1	390-0269
BASIC INB 300	39	630x400x600	480x250x320	1/3	1	390-0297
BASIC INB 400	53	550x480x680	400x330x400	2/4	1	390-0298
BASIC INB 500	108	710x550x760	560x400x480	2/5	1	390-0299
EXCELLENT INE 200	32	550x400x600	400x250x320	1/3	1	390-0300
EXCELLENT INE 300	39	630x400x600	480x250x320	1/3	1	466-5060
EXCELLENT INE 400	53	550x480x680	400x330x400	2/4	1	390-0301
EXCELLENT INE 500	108	710x550x760	560x400x480	2/5	1	390-0302
EXCELLENT INE 550	153	630x650x920	480x500x640	2/7	1	390-0324
EXCELLENT INE 600	256	950x650x920	800x500x640	2/7	1	390-0303
EXCELLENT INE 700	416	1190x650x1080	1040x500x800	2/9	1	466-5061
EXCELLENT INE 800	749	1190x750x1620	1040x600x1200	2/14	1	466-5062



#### **Cell Culture**

**Incubators** 

				Shelves		
	Inner			supplied /		
Туре	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.
PERFECT INP 200	32	550x400x600	400x250x320	1/3	1	390-0304
PERFECT INP 300	39	630x400x600	480x250x320	1/3	1	390-0305
PERFECT INP 400	53	550x480x680	400x330x400	2/4	1	390-0306
PERFECT INP 500	108	710x550x760	560x400x480	2/5	1	390-0307
PERFECT INP 550	153	630x650x920	480x500x640	2/7	1	390-0325
PERFECT INP 600	256	950x650x920	800x500x640	2/7	1	390-0308
PERFECT INP 700	416	1190x650x1080	1040x500x800	2/9	1	390-0309
PERFECT INP 800	749	1190x750x1620	1040x600x1200	2/14	1	390-0310

### Microbiological Incubators, Heraeus® Function Line

#### Thermo Scientific







#### Temperature range ambient +5 to 70 °C, volumes 64 to 233 I

All Heraeus® Function Line incubators are designed for unsupervised long-term operation. These compact units provide maximum possible volumes with the smallest possible footprint, and are equipped with all the essentials needed to perform cost-effectively in a wide range of laboratory environments. With corrosion-resistant stainless steel interiors and removable perforated shelves, Function Line models are easy to clean and decontaminate.

- · Small footprint, but large usable space inside
- Configured for unsupervised long-term operation
- · Simple to adjust and easy to clean
- Superior temperature homogeneity and fast recovery times
- · Safe and reliable

Cleaning and disinfection: These incubators are exceptionally easy to clean and disinfect, with rounded edges and corners on all chambers. Easily replaceable silicone door seals and quickly dismounted glass doors mean that the usable space can be cleaned thoroughly, safely and easily.

Control: Convenient temperature control with preset programme steps (up to 70 °C). The temperature is controlled by precise microprocessor controllers with a large, easily readable display. A timer with a range from 1 minute to 99 hours for switching the device on and off is integrated in the controller. Pre-configured temperature-time programmes provide further advantages, such as fixed heating and cooling ramps, delayed heater activation or heating to a pre-selected temperature and selection of a temperature maintenance time. These functions can be selected individually or in any combination. A standby function ensures that the temperature display continues to operate when the heater is switched

Connections: Mains connection 230 V, single phase AC, 50/60 Hz, 320-570 W (depending on the model), RS232 interface.

Technical data: Temperature deviation; spatial ±1 °C, temporal ± <0.5 °C. Weight 40-75 kg (depending on model)

Accessories: Recirculating incubators upon request. Standards: Protection class 3.1, DIN 12 880, parts 1+2

#### Models with natural convection

		Shelves supplied				
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.
B 6	73	552x540x700	408x344x459	2/9	1	390-1310
B 12	131	696x540x850	552x344x610	2/14	1	390-1320
B 20	233	754x720x910	610x514x672	2/16	1	390-1330

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#### **Cell Culture**

#### **Incubators**

#### Models with forced convection

				Shelves supplied			
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.	
UB 6	64	552x540x700	408x344x459	2/9	1	390-0037	
UB 12	112	696x540x850	552x344x610	2/14	1	390-0038	
UB 20	210	754x720x910	610x514x672	2/16	1	390-0039	

#### Shelves for Function Line

Description	Pk	Cat. No.	
Shelf stainless steel for B 20 and UB 20	1	390-1311	
Shelf stainless steel for B 12 and UB 12	1	390-1321	
Shelf stainless steel for B 6 und UB 6	1	390-1331	

### Microbiological Incubators, Heraeus® Series 6000

#### Thermo Scientific



#### Temperature range ambient +5 to 70 °C, volumes 30 to 750 I

Extensive range of standard equipment with uniquely modular design that allows them to be configured to meet specific individual needs. Optimal, homogeneous and stable environment provides temperature uniformity and stability, ensuring fully reproducible, high quality results. Larger models are available with forced air circulation (UB) for superior temperature homogeneity. Door seals are made of silicone and can be easily replaced. Left-hinged and lockable doors available on request. Other accessories available on request.

- Electronically regulated temperature (PID action)
- Protection from overheating with separate sensor
- · Short heating-up times and high temperature stability
- Minimal temperature overshoot

**Design**: Robust exterior made of galvanised, pre-coated sheet steel. Stainless steel incubator chamber and cover plates. Stainless steel interior heater. Modular operating and control unit. With damper to control extracted air as standard. Right-hinged doors as standard.

Cleaning: Corrosion-resistant stainless steel chamber with rounded corners and interior fixtures, easy to clean.

**Control**: Temporal temperature stability of 0.5 °C according to DIN 58945, electronically controlled, with PID action, Kelvitron® and non-contacting switching component for wear-free, noiseless heater switching. Actual and set point temperature are displayed digitally. Kelvitron® microprocessor controller, RS232 computer interface, 24-hour timer and temperature monitor (class 2, DIN 12880, part 1).

**Safety**: Electrical equipment in line with VDE 0700. All sizes are GS and SEV tested. Protection class IP 20. Constructed according to DIN 12880. Adjustable overheating monitor (protection class 3.1) as standard.

**Connections**: 230 V, 50/60 Hz, 0.26-1.20 kW (according to model) in addition to the RS232 digital interface there is the option of temperature documentation via analogue signals.

#### Models with natural convection

			Shelves supplied		
Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.
196	895x715x840	554x550x644	2/18	1	390-1140
30	552x535x576	352x370x231	1/4	1	390-1110
60	744x535x576	403x370x380	2/9	1	390-1120
107	895x535x720	554x370x524	2/14	1	390-1130
409	744x715x1813	544x550x1366	2/39	1	390-1150
751	1200x715x1813	1000x550x1366	2/39	1	390-1160
	196 30 60 107 409	196     895x715x840       30     552x535x576       60     744x535x576       107     895x535x720       409     744x715x1813	Inner volume (I)         WxDxH ext. (mm)         WxDxH int. (mm)           196         895x715x840         554x550x644           30         552x535x576         352x370x231           60         744x535x576         403x370x380           107         895x535x720         554x370x524           409         744x715x1813         544x550x1366	Inner volume (I)         WxDxH ext. (mm)         WxDxH int. (mm)         / max.           196         895x715x840         554x550x644         2/18           30         552x535x576         352x370x231         1/4           60         744x535x576         403x370x380         2/9           107         895x535x720         554x370x524         2/14           409         744x715x1813         544x550x1366         2/39	196       895x715x840       554x550x644       2/18       1         30       552x535x576       352x370x231       1/4       1         60       744x535x576       403x370x380       2/9       1         107       895x535x720       554x370x524       2/14       1         409       744x715x1813       544x550x1366       2/39       1

#### Models with forced convection

				Shelves supplied			
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.	
UB 6420	409	744x715x1813	544x522x1319	2/39	1	390-0040	
UB 6760	751	1200x715x1813	1000x522x1319	2/39	1	390-0041	



Incubators

### **General Purpose Incubators, Genlab**



# Temperature range ambient +5 to 70 °C (200 litre: ambient +8 to 70 °C), volume 50 to 200 l



A range of efficient, reliable, cost effective incubators ideal for biological analysis, research and general laboratory applications.

- Fluctuation ± 0.25 °C at 37 °C
- 200 litre model has fan assisted circulation, other models shown are supplied with natural convection, but are available with optional fan
- Temperaure range is ambient +8 for 200 I model and ambient +5 for all other models
- Units have double door (solid outer, clear glass inner) and microprocessor digital controller which displays both set and actual temperature
- Microprocessor digital controller is configured for each individual unit to

optimise the heat up, minimise the overshoot and control of the temperature

**Design**: There are two designs, INC and MINI to facilitate operation, depending on the location of the incubator. The INC has a horizontal style with the controls fitted to one side of the door. The MINI has a vertical style where the controls are fitted below the door near the base and would be less suitable for underbench locations. All the models listed below feature an exterior of sheet steel, finished in an easy clean powder coated paint; a stainless steel inner chamber and double doors, comprising steel outer with an inner glass door for easy sample viewing. Units are heated by means of Incoloy sheathed elements; positioned below the chamber floor for natural convection units and fitted around the fan on the back or side wall of the chamber for fan assisted units (200 litre only). The top vent is fitted with a clip to hold a mercury in glass thermometer.

**Shelves**: All units have fixed shelf runners and chrome plated wire grid shelves. MINI/6 has one shelf, MINI/30, INC/50 and INC/75 units are supplied with 2 shelves, INC/100, INC/125 and INC/150 have 3, INC/200 has 4 shelves. **Control**: The control system comprises a Microprocessor digital PID controller with dual displays of set point and actual temperature. The control system comprises a direct reading thermostat and over-temperature thermostat, both with calibrated scales and tamper-proof locks. They also include main switch with indicator and heat and overheat indicators

**Accessories**: A wide range of options and accessories is available, including models with mild steel coated with aluminium (CLAD) chambers, fan circulation and doors with integral viewing window. High capacity units up to 1250 litres are also available, please enquire for details.

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.
MINI/6	6	320x330x390	230x190x150	1	390-0337
MINI/30	30	480x490x500	360x350x240	1	390-0336
INC/50	50	730x470x570	410x340x420	1	390-0356
INC/75	75	850 470x570	530x340x420	1	390-0357
INC/100	100	850x590x570	530x460x420	1	390-0346
INC/125	125	850x590x680	530x460x520	1	390-0347
INC/150	150	850x660x680	530x540x520	1	390-0348
INC/200	200	850x660x870	490x540x750	1	390-0349



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390.7

#### **Cell Culture**

**Incubators** 

# Incubators, Roll-In, Standard and CO<sub>2</sub>

Wheaton



#### Temperature range ambient +8 to +70 °C, volume 1132 litres

These incubators are an ideal space saving and economical alternative to a warm room for small production runs. Designed specifically for use with the Wheaton roller culture apparatus, they can also be used in combination with optional shelves to accomdate spinner flasks, rocker tables and other equipment.

- Forced air circulation with digital temperature control gives temperature stability of ±0.5 °C at 37 °C (without shelves)
- Units have a viewing window in the door and four internal electrical outlets for shakers, stirrers etc.
- CO<sub>2</sub> incubator has light weight lifting ramps for rolling in roller culture apparatus
- CO<sub>2</sub> range 0-20%, gas shuts off when door is opened or switch is turned off

**Design**: Units have a painted steel exterior , the standard models have a painted steel interior and  ${\rm CO}_2$  models have stainless steel interiors. Their double walled construction provides temperature stablity and is easy to clean.

**Shelves**: Supplied without shelves, which are available separately, units can accommodate a maximum of 12 shelves.

Cleaning: Inner chamber is easy to clean.

**Safety**: Features include independent over-temperature safety protection. **Controller**: Digital indicator and keypad, settings are maintained if power is interrupted.

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.
Roll-In CO <sub>2</sub> incubator, UK-plug	1132	1042x864x2210	890x660x1930	1	390-0165
Roll-In standard incubator, UK-plug	1132	1042x864x2210	890x660x1930	1	390-0163

#### **Shelves**

390.8

Description	for	Pk	Cat. No.	
Shelf	Roll-In incubators	1	390-0164	

# Refrigerated Incubators, KB Series Binder



#### Temperature range -5 to +100 °C, volumes 20 to 700 I

Refrigerated incubators are mainly used for culturing tasks that need to be carried out at temperatures below room temperature or if high ambient temperatures cannot be avoided. The DCT™ cooling system, in conjunction with the APT.line™ temperature technology, provides ideal conditions assuring temperature accuracy and reproducible results in both heating and cooling situations - with minimal dehumidification of specimens and impressive performance. The DCT™ cooling system and the controllable fan guarantee high degrees of humidity even during cooling mode or prolonged testing, to protect samples from drying out.



- · Adjustable fan speed
- Foam insulation, contains no FCHCs, environmentally friendly refrigerant R 134a
- Temperature deviation: ±0.2 °C at 25 °C

**Design**: Internal glass door. Units up to 115 litres can be stacked on top of each other to save space.

**Shelves:** Supplied with 2 chrome-plated racks.

Cleaning and disinfection: Hot air sterilisation at 100 °C.

Safety: Independent adjustable temperature safety device, Class 3.1 (DIN 12880) with visual and acoustic alarm.

**Controller**: Electronically controlled APT.line<sup>™</sup> preheating chamber and DCT<sup>™</sup> refrigeration system. Microprocessor programme controller, with LED display, with 2 programmes each with 10 sections; alternatively 1 programme with 20 sections and various timer functions; temperature monitor Class 3.1 (DIN 12880); elapsed time indicator.

**Connections**: DataControl system, or can be switched to printer with RS232/RS422 port converter; adjustable printing intervals; RS422 port for APT-COM™ communication software RS 422 interface for communication software, or switch over to printer output with RS 232 / RS 422 interface converter, nominal voltage 230 V.





#### **Cell Culture**

**Incubators** 

Calibrations and validations possible. Supplied with Binder test certificate.

Technical data: Temperature fluctuation: ±0.1 °C; Nominal power: 460 W (KB 53), 930 W (KB240), 1350 W (KB 720).

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
KB 23	20	433x516x618	222x277x330	1	390-6076	
KB 53	53	634x576x837	400x330x400	1	390-6080	
KB 115	115	834x646x1022	600x400x480	1	390-6081	
KB 400	400	884x716x1850	650x470x1308	1	390-6083	
KB 720	700	1234x867x1816	1000x600x1168	1	390-0358	

### Cooled Incubators, ICP Series

#### **Memmert**



#### Temperature range 0 to +60 °C, volumes 53 to 749 I

Compressor-cooled incubators with finely tuned control technology, Memmert's PERFECT controller, which ensures deviations from the setpoint are minimised, guaranteeing the safety of temperature-sensitive living cultures at all times. Ideal for use where rapid and precise changes between heating up and cooling down phases in ramp operation are called for.

- Air jacketted heating system, rapid and precise temperature control, no possibility of the load drying out as the thermal jacket is separated from the interior, so the chamber does not dehumidify
- Integrated timer for temperature profiles of up to 40 ramps, each segment adjustable from 1 min up to 999 h
- Fan speed can be controlled and set in increments of 10% from 10% to 100% via controller
- Safety features include the Automatic Safety Function for over- and undertemperature, automatically follows the setpoint in a selectable tolerance range, protection Class 3.3
- · Autodiagnostic system with fault indication and highly efficient automatic

defrosting system

Design: Units have easy-to-clean stainless steel interior, with deep drawn ribbing, inner glass door, and stainless steel outer shell

Shelves: 2 perforated stainless steel shelves, choice of 4 to 14 shelf positions depending on size of incubator.

Cleaning and disinfection: Corrosion-resistant stainless steel chamber and interior fixtures, easy to clean due to shape and material.

Control: Multifuctional microprocessor 'PERFECT' PID-controller with 8-digit alphanumeric digital display, digital 7-dayprogramme timer with real time clock, precise minute setting, for one set value or start of ramp operation.

Safety: Independent, digital adjustable electronic microprocessor overtemperature controller, TWW protection class 3.3.

Connections: USB interface.

**Technical data:** Temperature deviation: < ±0.1 °C in real time.

Calibration: Calibration and validation to assist with GLP compliance are possible, please enquire.

Accessories: Wide range of options including day/night simulation (24-hour cycle) programmable in conjunction with interior lighting or programming and documentation using interfaces, Celsius software, integrated log memory and chip cards. Please ask for details.

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
ICP 400	53	400x330x400	558x486x967	1	466-5209	
ICP 500	108	718x556x1047	560x400x480	1	466-5056	
ICP 600	256	958x656x1335	800x500x640	1	466-5210	
ICP 700	416	1198x656x1495	1040x500x800	1	466-5057	
ICP 800	749	1198x756x1895	1040x600x1200	1	466-5058	

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#### **Cell Culture**

**Incubators** 

# **Cooled Incubators with Peltier, Forced Convection, IPP Series Memmert**



#### Temperature range 5 to 70 °C, volumes 32 to 108 l

These accurate cooled incubators are designed for use in the temperature range from 5 to 60 °C. The forced air circulation in the interior is created by the Peltier circulation fan. All process functions are visible, additional language selection via set-up is possible.

All relevant data is logged for the long term by a 1024 kB ring buffer serving as a data logger. Multiple over-temperature protection is provided by an audible and visual alarm. USB serial interface with 'Celsius' programming and logging software, and a 32 kB MEMory card are also included. The ramp timer is designed for 40 variable ramps, each from 1 min to 999 h. The glass operating panel has a multifunction wideband display and input module.

- Maximum safety for sensitive samples, unsurpassed environmental features
- Adaptive, fuzzy-supported multifunctional 'PERFECT' PID process controller
- Energy consumption reduced by up to 90%, no cooling medium (no refrigerant waste) and minimal noise
- Safety features include the Automatic Safety Function for over- and under-temperature, automatically follows the setpoint in a selectable tolerance range, protection Class 3.3
- Condensation, which is physically unavoidable, forms outside in the cooling element, not in the interior (no dripping water)

**Design**: Units have easy-to-clean stainless steel interior, with deep drawn ribbing, inner glass door, and stainless steel outer shell.

**Shelves**: IPP 200 and IPP 300 have 1, other units supplied with 2 perforated stainless steel shelves, choice of 3 to 5 shelf positions depending on size of incubator.

**Cleaning and disinfection**: Corrosion-resistant stainless steel chamber and interior fixtures, easy to clean due to shape and material.

**Control**: Multifuctional microprocessor 'PERFECT' PID-controller with 8-digit alphanumeric digital display, digital 7-day-programme timer with real time clock, precise minute setting, for one set value or start of ramp operation.

**Safety**: independent, digital adjustable electronic microprocessor overtemperature controller, TWW protection Class 3.3.

Connections: USB interface.

**Technical data**: Temperature deviation: < ±0.1 °C in real time.

Calibration: Calibration and validation to assist with GLP compliance are possible, please enquire.

Accessories: Wide range of options including interfaces, Celsius software and chip cards. Please ask for details.

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
IPP 200	32	550x490x600	400x250x320	1	390-0270	
IPP 300	39	630x490x600	480x250x320	1	390-0238	
IPP 400	53	550x550x680	400x330x400	1	390-0271	
IPP 500	108	710x620x760	560x400x480	1	390-0272	





### Low Temperature Incubator, Heraeus® BK 700

Thermo Scientific



#### Temperature range 3 to 40 °C, volume 190 I

For incubating cultures at low temperatures.

- · Electronic, 3-point thermostat
- Condensation-free inner chamber
- · Integral timer

**Design**: The inner housing is made from impact-resistant plastic. A magnetic strip ensures easy opening and closing of the cabinet door. Soft-Touch control panel with digital temperature display and status display for cooling, heating and alarm. This incubator is designed for using magnetic stirrers or other equipment inside the unit.

**Control**: An integral timer (1-9999 min to 7 days) switches on 2 sockets located in the inner chamber and enables cyclical and reproducible tests with accessories such as magnetic stirrers. 3-Point temperature controller.

Connections: 230 V, 50/60 Hz, 230 W, 2 sockets in the usable space.

**Technical data:** Temperature deviation: temporal ±1 °C, spatial ±1 °C; cooling time from 25 to 5 °C 48 minutes; weight 46 kg.

			:	Shelves supplied	1		
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.	
BK 700	190	540x560x1295	440x435x995	3/14	1	392-0400	

#### **Cooled Incubators, Genlab**





#### Temperature range +2 to 50 °C, volumes 50 to 280 I

Range of accurate, efficient and economical cooled incubators that are ideal for a wide range of research, testing and general laboratory applications.

- · All units have fan assisted air circulation for even temperature distribution throughout the chamber
- Units have an "intelligent switch" built into the digital controller that automatically switches the cooling compressor off, at a set point, and when temperatures above ambient are required, to conserve energy
- User can leave the unit unattended and can be confident that the minimum amount of energy is being used for the incubator performance

**Design**: Exterior is mild steel finished in white enamel paint. Durable, easy to clean moulded plastic inner chamber fitted with a stainless steel back plate.

**Shelves**: All units are fitted with integral shelf runners and removable plastic coated wire grid shelves. CI/50 is supplied with 2 shelves, CI/100 has 3, CI/200 has 6 and CI/250 has 7 shelves.

**Control**: The control system comprises a microprocessor digital PID controller with dual displays of set point and actual temperature.

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#### **Cell Culture**

#### **Incubators**

**Accessories**: A wide range of options and accessories is available, including timers, fully programmable controllers, communication and access ports, interior lights, internal 13 amp sockets, viewing window, audible and visual alarms and chart recorders. Please enquire for details.

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
CI/50	50	500x550x750	420x300x470	1	390-0335	
CI/100	100	500x630x950	420x380x680	1	390-0332	
CI/200	200	530x660x1570	420x380x1300	1	390-0333	
CI/280	280	640x640x1900	440x410x1620	1	390-0334	

### **Cooled Incubators, Series 3**



#### Temperature range −10 to +50 °C, volumes 90 to 450 I

Series 3 cooled incubators are temperature controlled cabinets with fan assisted air circulation via a pre-mixing chamber. They are ideal for studying growth patterns of plants and insects, BOD tests, seed germination, tissue culture, enzyme testing and fruit fly culture.

- · Units feature automatic defrost
- · Easy to use controls with digital display of actual temperature
- · Hermetically sealed refrigeration system, and suppressed RF and TV electronics
- Full PID heating control to ensure stable internal temperature

**Design**: The units have a white enamelled sheet steel exterior, stainless steel lined interior with polyurethane foam insulation, and feature a door lock and magnetic door gasket.

Shelves: Supplied with white plastic coated wire shelves and self evaporating condensate drip tray.

Cleaning: Corrosion resistant inner chamber is easy to clean, disinfection procedures are detailed in the user manual.

Safety: Features include variable over-temperature alarm, safety cutout preset at 70 °C and refrigeration isolation switch.

**Controller**: Controls are recessed in the control panel, to avoid accidental alteration. Full PID heating control, indicator for temperature overheat alarm.

Connections: 230 V, 50/60 Hz, RS 232 interface.

**Technical data**: Average temperature variation of  $\pm 0.5$  °C and fluctuation of  $\pm 0.1$  °C with an average load. Heating time 20 to 45 °C in 30 min, cooling time 20 to 0 °C in 50 min, subject to load and ambient temperature.

**Calibrations**: Optional conformance certificate and on-site UKAS Accreditation of laboratory equipment are available. Please enquire for details.

Accessories: Extensive range of accessories and factory fitted options, such as interior programmable fluorescent/ UV lighting, inner perspex door, manual high/low temperature alarms (audible and visible) with safety cut-out, built in chart recorder, RS485 interface and access ports are available on request, please enquire for further details. Please note: if application involves Drosophila, a modification for aggressive environments is required, please contact us before placing your order. Fully programmable models are available.

	Inner		Shelves supplied /				
Туре	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.	
100W	90	610x600x810	540x440x490*	2/5**	1	390-0081	
200W	227	680x570x1470	550x450x920*	3/20**	1	390-0085	
300W	290	680x570x1780	550x450x1170*	3/25**	1	390-0089	
400W	450	680x860x1780	550x700x1170*	3/25**	1	390-0096	

Dual temperature cycling models are available please enquire.



<sup>\*</sup> Internal dimensions shown above are maximum dimensions, internal usable space will be less due to space occupied by refrigeration system.

<sup>\*\*</sup> Please note that with the maximum number of shelves fitted in a cabinet, there is only a 20 mm gap between each shelf.

### **Cell Culture**

Incubators

### **Cooled Incubators, Series 3, Programmable**



#### Temperature range -10 to +50 °C, volumes 90 to 450 l

The programmable option for LMS Series 3 cooled incubators is designed to offer the highest functionality and enables the user to set up and run complex processes relying on accurate temperature control. The programmer function is able to control

applications needing set point changes over time, e.g. ramp changes where a gradual rate of change can be set, or step changes which are instantaneous. These can be separated by soak periods during which the process is held at a constant value. Each individual time interval of the program, or segment, together with its associated moving set point value, can be stored as a unique program. Via use of "event outputs" control of interior illumination and/or alarm function is also available. At the end of a sequence, a program can be arranged to repeat (or loop), either a specified number of cycles or continuously. For safety reasons, three modes of recovery from power failure are available. These either automatically re-start the program from the beginning, continue it from where it stopped or hold it, waiting for a user re-start. Finally, chart-recorder, data-logging and configuration software for windows is available as optional extras. This software is designed to operate to program all functions of the controller and to data log the recorded process signals, including chart recorder for on screen viewing of trends, virtual instrument display, on-screen alarm displays and remote set point adjustment. For full details of incubator specifications see Series 3.

- · Units feature automatic defrost
- Easy to use controls with digital display of actual temperature on the standard controller or display of both set point and actual temperature on the programmable controllers
- Hermetically sealed refrigeration system, and suppressed RF and TV electronics
- Full PID heating control to ensure stable internal temperature

	Inner			Shelves supplied	1	
Туре	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.
100WNP	90	610x600x810	540x440x490*	2/5**	1	390-0082
200WNP	227	680x570x1470	550x450x920*	3/20**	1	390-0086
300WNP	290	680x570x1780	550x450x1170*	3/25**	1	390-0090
400WNP	450	680x860x1780	550x700x1170*	3/25**	1	390-0097

<sup>\*</sup> Internal dimensions shown above are maximum dimensions, internal usable space will be less due to space occupied by refrigeration system.

### **Cooled Incubators, Series 4**



#### Temperature range −10 to +50 °C, volumes 600 to 1200 l

Series 4 cooled incubators are temperature controlled cabinets with fan assisted air circulation via a pre-mixing chamber. They are ideal for studying growth patterns of plants and insects, BOD tests, seed germination, tissue culture, enzyme testing and fruit fly culture.

- · Units feature automatic defrost
- Easy to use controls with digital display of actual temperature
- Hermetically sealed refrigeration system, and suppressed RF and TV electronics
- Full PID heating control to ensure stable internal temperature

**Design**: The units have a stainless steel exterior, stainless steel lined interior with polyurethane foam insulation, and feature a door lock and magnetic door gasket.

**Shelves**: Supplied with white plastic coated wire shelves and self evaporating condensate drip tray.

Cleaning: Corrosion resistant inner chamber is easy to clean, disinfection procedures are detailed in the user manual.

Safety: Features include variable over-temperature alarm, safety cutout preset at 70 °C and refrigeration isolation switch.

**Controller**: Controls are recessed in the control panel, to avoid accidental alteration. Full PID heating control, indicators for mains and high temperature safety cut-out.

Connections: 230 V, 50/60 Hz, RS 232 interface.

**Technical data**: Average temperature variation  $\pm 0.5$  °C and fluctuation of  $\pm 0.1$  °C with an average load. Heating time 20 to 45 °C in 30 min, cooling time 20 to 0 °C in 50 min, subject to load and ambient temperature.

**Calibrations**: Optional conformance certificate and on-site UKAS Accreditation of laboratory equipment are available. Please enquire for details.

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<sup>\*\*</sup> Please note that with the maximum number of shelves fitted in a cabinet, there is only a 20 mm gap between each shelf.

#### **Cell Culture**

#### **Incubators**

Accessories: Extensive range of accessories and factory fitted options such as, interior programmable fluorescent/ uv lighting, inner perspex door, manual high/low temperature alarms (audible and visible) with safety cut-out, built in chart recorder, temperature programmers, temperature controllers, RS485 interface and access ports are available on request, please enquire for further details. Please note: if application involves Drosophila, a modification for aggressive environments is required, please contact us before placing your order. Fully programmable models are available.

			Shelves supplied				
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.	
600W	600	690x800x2000	540x670x1460	5/24*	1	390-0099	
600WA	600	690x800x2000	540x670x1460	5/24*	1	390-0168	
1200W	1200	1370x800x2000	1240x670x1460	10/48*	1	390-0083	

A denotes dual temperature cycling models

### Cooled Incubators, Series 4, Programmable





#### Temperature range -10 to +50 °C, volumes 600 to 1200 l

The programmable option for LMS Series 4 cooled incubators is designed to offer the highest functionality and enables the user to set up and run complex processes relying on accurate temperature control. The programmer function is able to control

applications needing set point changes over time, e.g. ramp changes where a gradual rate of change can be set, or step changes which are instantaneous. These can be separated by soak periods during which the process is held at a constant value. Each individual time interval of the program, or segment, together with its associated moving set point value, can be stored as a unique program. Via use of "event outputs" control of interior illumination and/or alarm function is also available. At the end of a sequence, a program can be arranged to repeat (or loop), either a specified number of cycles or continuously. For safety reasons, three modes of recovery from power failure are available. These either automatically re-start the program from the beginning, continue it from where it stopped or hold it, waiting for a user re-start. Finally, chart-recorder, data-logging and configuration software for windows is available as optional extras. This software is designed to operate to program all functions of the controller and to data log the recorded process signals, including chart recorder for on screen viewing of trends, virtual instrument display, on-screen alarm displays and remote set point adjustment. For full details of incubator specifications see Series 4.

- Units feature automatic defrost
- Easy to use controls with digital display of both set point and actual temperature
- Hermetically sealed refrigeration system, and suppressed RF and TV electronics
- Full PID heating control to ensure stable internal temperature

		Shelves supplied						
Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	/ max.	Pk	Cat. No.		
1200 NP	1200	1370x800x2000*	1240x670x1460	10/48	1	390-0084		
600 NP	600	690x800x2000*	540x670x1460	5/24	1	390-0100		

<sup>\*</sup> Please note that with the maximum number of shelves fitted in a cabinet, there is only a 20 mm gap between each shelf.

### **Optional Extras for LMS Cooled Incubators**

These items must be ordered with the appropriate incubator model and cannot be 'retrofitted'.

Description	for	Pk		
Castors	Series 4, all models	1	390-0104	
Internal socket	All models	1	390-0125	
Access port 38 mm	All models	1	390-0103	
Chart recorder	All models	1	390-0105	

#### **Double glazed doors**

Description	for	Pk	Cat. No.	
Double glazed door	Series 3, model 400	1	390-0360	
Double glazed door	Series 3, model 200	1	390-0109	
Double glazed door	Series 3, model 100	1	390-0110	

#### **Drosophila modification\***

For application involving Drosophila, a modification for aggressive environments will be required. This factory fitted option cannot be retrofitted. Please contact us before ordering your incubator.



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<sup>\*</sup> Please note that with the maximum number of shelves fitted in a cabinet, there is only a 20 mm gap between each shelf.

#### **Cell Culture**

#### Incubators

Description	for	Pk	Cat. No.
Drosophila modification	Series 3, model 100	1	390-0374
Drosophila modification	Series 3, model 200	1	390-0375
Drosophila modification	Series 3, model 300	1	390-0376
Drosophila modification	Series 3, model 400	1	390-0383
Drosophila modification	Series 4, model 600	1	390-0377
Drosophila modification	Series 4, model 1200	1	390-0378

#### Inner perspex doors

Description	for	Pk	Cat. No.	
Inner perspex door	Series 3, model 100	1	390-0121	
Inner perspex door	Series 3, model 200	1	390-0361	
Inner perspex door	Series 3, model 300	1	390-0362	
Inner perspex door	Series 4, model 600	1	390-0123	
Inner perspex door	Series 4, model 1200	1	390-0124	

#### Interior illumination

Description	for	Pk	Cat. No.
Interior illumination with 7 day timer	Series 3, model 100	1	390-0364
Interior illumination with 24 hour timer	Series 3, model 100	1	390-0363
Interior illumination with 7 day timer	Series 3, model 200	1	390-0369
Interior illumination with 24 hour timer	Series 3, model 200	1	390-0116
Interior illumination with 7 day timer	Series 3, model 300 and 400	1	390-0368
Interior illumination with 24 hour timer	Series 3, model 300 and 400	1	390-0366
Interior illumination with 7 day timer	Series 4, model 600	1	390-0365
Interior illumination with 24 hour timer	Series 4, model 600	1	390-0117
Interior illumination with 7 day timer	Series 4, model 1200	1	390-0367
Interior illumination with 24 hour timer	Series 4, model 1200	1	390-0118

#### Standard shelves

Description	for	Pk	Cat. No.
Standard shelf	Series 3, model 100	1	390-0370
Standard shelf	Series 3, model 200	1	390-0371
Standard shelf	Series 3, model 300	1	390-0372
Standard shelf	Series 3, model 400	1	390-0373
Standard shelf	Series 4, all models	1	390-0128

### Climatic Chambers, KBF, KBF ICH and KBF LQC series







#### Temperature range 0 to +70 °C (without humidity), volumes 115 to 700 I

The KBF series is ideal for reliable stability tests and precise maintenance of constant climatic conditions. Constant temperature and humidity values are the outstanding features of this range. These constant climate chambers have large reserve capacity and a variety of optional features. They also comply with all applicable guidelines with respect to programming and documentation requirements, such as ICH, FDA, GMP and GLP.

**KBF series -** for precise simulation of constant climatic conditions.

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390.15

#### **Cell Culture**

#### **Incubators**

**KBF ICH** series - a KBF with ICH-compliant illumination, the one source solution for photostability tests. **KBF LQC** series - a KBF with ICH-compliant illumination and patented light measurement, Light Quantum Control (LQC).

- Can be operated with tap water with a maximum hardness of 8.0 °dH (1.4285 mmol/l), Binder Pure Aqua Service flexible water purification system or deionised water
- · Electronically controlled humidification and dehumidification system with capacitive humidity sensor
- · Environmental friendly refrigerant R 134a
- Suitable for stability tests according to ICH guideline Q1A
- Electronically controlled APT.line™ preheating chamber and refrigeration system

**Design**: Inner glass door with smooth inner face and seals, access port with Ø 30 mm silicone plug on the left, includes 2 stainless steel racks and Binder test certificate.

**Control**: MCS controller with colour LCD screen with 25 storable programs each with 100 sections for max. 500 program segments. Integrated electronic chart recorder, variety of options for the graphic display of process parameters and a real time clock.

**Safety**: Adjustable temperature safety device Class 3.1, DIN 12880 with visual and audible alarm. Complete safety connection kit for water supply and drainage.

**Humidity**: Microprocessor controlled humidification and dehumidification system with a humidity range of 10-80% RH, humidity accuracy levels of ±1.5% RH.

**Connections**: 230 V, Ethernet or RS422 interface for communication software.

Calibration: Calibration and validation possible, please enquire.

#### **KBF** series

Shelves							
Inner volume				supplied /			
Туре	(I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.	
KBF 115	115	834x645x1250	600x400x480	2/5	1	390-0230	
KBF 240	240	905x765x1458	650x470x785	2/9	1	390-0313	
KBF 720	720	1234x865x1983	1000x600x1200	2/14	1	390-0232	

#### **KBF ICH series**

Inner volume							
Туре	(I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.	
KBF ICH 240	240	905x765x1458	650x470x785	2/7	1	390-0314	
KBF ICH 720	700	1234x867x1816	1000x600x1168	2/14	1	390-0218	

#### **KBF LQC series**

				Shelves		
	Inner volume			supplied /		
Туре	(I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.
KBF LQC 240	240	905x765x1458	605x470x785	2/7	1	390-0315
KBF LQC 720	700	1234x867x1816	1000x600x1168	2/14	1	390-0326

### Plant Growth Chambers, KBW Series

#### Binder



# KBW 240 and KBW 720, temperature range 0 to 70 °C (without lighting); KBW 400, temperature range -10 to +60 °C (without lighting)

The KBW series plant growth chambers are precise units for plant cultivation under advanced working conditions. They provide perfect simulation of a wide range of growing environments. The KBW plant growth chambers satisfy all requirements for optimum lighting and temperature conditions, so that culture processes can be defined and reproduced exactly.

- · Precision and outstanding dynamics
- · Even distribution of light on all levels
- · Environmental friendly
- Individual programming

**Design**: Variable position daylight cassettes with 5 daylight luminescence tubes each. Inner glass door, access port with silicone plug  $\varnothing$  30 mm on the left hand side

Shelves: Supplied with 2 stainless steel shelves.

**Safety**: Temperature safety device Class 3.1, with visual and acoustic temperature alarm.



#### **Cell Culture**

#### **Incubators**

Control: Microprocessor program controller with 2 programs each with 10 sections or, alternatively, switch over to 1 program with 20 sections, integrated weekly program timer, elapsed time indicator, adjustable fan speed and electronical controlled APT.line preaheating chamber.

Connections: RS422 interface for APT-COM® standard communication software, nominal voltage 230 V, 200-240 V (KBW 240)

**Calibrations** and validations possible. Supplied with Binder test certificate.

	Temp.		Inner				
Туре	range (°C)	Volume (I)	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.
KBW 240	0+70	240	240	925x800x1460	650x485x785	1	390-0330
KBW 400	0+70	400	400	884x716x1850	650x470x1308	1	390-6078
KBW 720	0+70	720	720	1250x887x1925	973x576x1250	1	390-0359

### **Humidity Chambers, HCP Range**

#### Memmert



Humidity chambers which have corrosion resistant, stainless steel inner chamber and housing for long-term climatic tests at constant temperature and humidity. Ideal for food processing, cosmetics, pharmaceutical. biotechnology, and electronics industries. Units feature an auto diagnostic system with fault indication for temperature and humidity control. The working chamber is heated on all six sides; this together with electronic humidity control prevents condensation forming in the chamber. Distilled water is supplied from an external 3 litre tank by means of a self priming pump. GLP/GMP compliance is assisted by the serial USB interface and "Celsius" software for programming and documentation.



- Multifunctional 'PERFECT' PID microprocessor controller and digital LED display for all set parameters and 7 day programme timer with real time
- Integrated timer for temperature profiles of up to 40 ramps, each segment adjustable from 1 min up to 999 h
- Active control for humidifying and dehumidifying (20-95% RH) with digital

display of RH, resolution 0.5%, setting accuracy 1%

- · Various safety features including independent, digitally adjustable, electronic over-temperature controller TWW protection Class 3.1; audible and visual alarm in case of over or under temperature, over or under humidity, door open or empty water tank
- Inner glass door enables samples to be viewed without affecting chamber temperature and prevents contamination

Model	HCP 108	HCP 153	HCP 246			
Temperature range (°C)	Ambient +890 with humidity control; Ambient +8160 without humidity control					
Temperature fluctuation (°C)	±0.1	±0.1	±0.1			
Temperature variation at 90 °C (°C)	< ±0.3	< ±0.3	< ±0.3			
Stability RH (%)	±1.5	±1.5	±1.5			
Capacity (I)	108	153	246			
Heating system	N	on-turbulent ventilation syste	m			
Shelves (shelf positions)	2 (3)	2 (4)	2 (4)			
Internal WxDxH (mm)	560x400x480	480x500x640	640x600x640			
External WxDxH (mm)	710x550x778	630x650x938	790x750x938			
Weight (kg)	70	90	110			
Nominal power (W)	1000	1500	2000			

Ordering Information: Units supplied with software, memory card, calibration certificate (measurements taken at 60 °C) and 2 perforated stainless steel shelves. Accessories and factory fitted options, such as USB and printer interfaces, access ports and documentation are available on request, please enquire for details.

Description	Pk	Cat. No.	
HCP 108	1	466-5053	
HCP 153	1	466-5054	
HCP 246	1	466-5055	

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#### **Cell Culture**

CO<sub>2</sub> Incubators

### CO<sub>2</sub> Incubators with Hot Air Sterilisation, CB Series

Binder



#### Temperature range ambient +7 to 60 °C, volume 53, 150 or 210 l

CO<sub>2</sub> incubators with advanced technology so all growth parameters are maintained in constant equilibrium with the shortest reaction times and growth processes are reproducible at any time. The CB series enable cell cultivation in the most up-to-date working conditions and reliable tissue production in compliance with all international directives and regulations. The precision and outstanding dynamics of the new screen controllers are excellent. All values are displayed in real time. The exceptionally safe decontamination concept guarantees complete sterility. The CB series is ideal for all sensitive incubation applications. Electronic self-diagnostic system for errors with optical and acoustic alarm as well as potential-free relay contact for central monitoring.

- Electronically controlled APT.line® preheating chamber technology
- MCS controller for temperature and CO<sub>2</sub> concentration
- Permadry™ system, condensation-free, double pan humidification system
- Contamination-free cultivation due to overnight hot air sterilisation at 180 °C.
   Complies with DIN 58947
- Stable pH values due to short recovery times with drift-free FPI infrared CO<sub>2</sub> measurement system

**Design**: Tightly sealing inner glass door, lockable outer door prevents unauthorised access or interference. Weldless, deep-drawn inner chamber made from stainless steel with integral shelf support system. Interior is easy to clean as it has no fan or HEPA filters. Units can be stacked on top of eachother with optional stacking adapter to save space.

Shelves: 3 perforated stainless steel shelves.

Cleaning and disinfection: Hot air sterilisation at 180 °C.

**Safety**: Gas mixing head. A special mixing head mixes the gas, which is blown at 1 bar overpressure from the CO<sub>2</sub> supply via a solenoid valve into the inner chamber with filtered air, thus ensuring homogenous distribution. Electronic self-diagnostic system for errors with optical and acoustic alarm, as well as relay contact for central monitoring.

**Control**: Colour screen controller for temperature and CO₂ concentration, user friendly LCD screen and easy to read menu guide, integrated electronic chart recorder, real time clock and a variety of options for graphic display of process parameters. APT.line® air jacket system, Gas mixing head, infrared irradiation CO₂ measurement system, digital, drift-free infrared CO₂ measurement system with temperature safety device, Class 3.1.

Connections: RS422 interface for communication software, mains connection: 230 V, 50/60 Hz.

Technical data: Temperature deviation ±0.1 °C, rated output: 1000 W (CB 53); 1300 W (CB 150); 1500 W (CB 210).

Calibration: Calibrations and validations possible. Supplied with Binder test certificate.

**Accessories**: A wide range of options and accessories is available, including partitioned inner glass door and divided shelves (CB 150 and CB 210 only),  $O_2$  control, Ethernet interface, connection kit for  $CO_2 / O_2 / N_2$ .

Туре	Inner volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	Pk	Cat. No.	
CB 53, CO₂ incubator	53	580x545x720	400x330x400	1	390-0319	
CB 53, CO <sub>2</sub> incubator with O <sub>2</sub> -control	53	580x545x720	400x330x400	1	390-0320	
CB 150, CO₂ incubator	150	680x722x919	500x500x600	1	390-6054	•
CB 150, CO₂ incubator with O₂ control	150	680x722x919	500x500x600	1	390-6056	
CB 150, CO₂ incubator with O₂ control,						
with gas tight divided inner glass door	150	680x722x919	500x500x600	1	390-6060	
and divided shelves						
CB 150, CO₂ incubator with gas tight						
divided inner glass door and divided	150	680x722x919	500x500x600	1	390-6058	
shelves						
CB 210, CO₂ incubator	210	740x722x1069	560x500x750	1	390-6055	
CB 210, CO <sub>2</sub> incubator with O <sub>2</sub> control	210	740x722x1069	560x500x750	1	390-6057	
CB 210, CO₂ incubator with gas tight						
divided inner glass door and divided	210	740x722x1069	560x500x750	1	390-6059	
shelves						

#### **Cell Culture**

CO<sub>2</sub> Incubators

#### Accessories

Description	Pk	Cat. No.
Connection Kit CO₂	1	390-0181
Connection Kit O₂	1	390-0182
Connection Kit N₂	1	390-0183
Base on castors for CB 53	1	390-0321
Stacking adapter for CB 53	1	390-0322
Perforated shelf for CB 150, stainless steel	1	390-6062
Perforated shelf for CB 53, stainless steel	1	390-0316

#### **Factory fitted options**

Description	Pk	Cat. No.	
Lockable keyboard for CB series incubators	1	390-0003	
Rear 30 mm, silicone access port	1	390-0317	
Ethernet interface for CB series incubators	1	390-0318	

### CO<sub>2</sub> Incubators, C 150 Series

#### Binder



#### Temperature range ambient +7 to 50 °C, volume 150 I

The C 150 CO2 incubator meets the highest standards for cell cultivation. Technically uncompromising, it is ideal for routine cell culture applications. The C 150 is easily accessible, units can be used as stand alone or stacked. The microprocessor-controlled CO2 incubators have electronically controlled APT.line™ preheating chamber technology, a fan-assisted air jacket system, a gas mixer head, and a drift-free CO2 infrared absorption measuring system, as well as an automatic diagnostic system with optical and acoustic alarm, all as standard.

- Contamination-free cultivation due to standard-compliant hot air sterilisation at 180 °C
- 27% less potential contamination surface in the seamless, deep-drawn interior chamber
- Stable pH values due to FPI infrared measuring system without drift error
- Entirely condensation-free, even at high humidity

**Design**: Lockable door-with choice of left or right hand side hinges. Weldless deep-drawn inner chamber with integrated shelf support system.

Shelves: Supplied with 3 perforated stainless steel shelves.

Cleaning and disinfection: Hot air sterilisation at 180 °C complies with DIN 12880, units have an easy-to-clean interior without fan or HEPA filter.

**Safety**: Automatic diagnostic system with optical and acoustic alarm, as well as zero-voltage relay contact for central monitoring, locking controller keyboard via 3 digit password, temperature safety device class 3.1.

**Control**: Air jacket system microprocessor control for temperature and CO2 with various alarm and status displays, built in water condensation control.

**Technical data**: Temperature fluctuation ±0.1°C

Connections: 230 V, 50/60 Hz, 1.2 kW.

Calibrations and validations possible. Supplied with Binder test certificate.

	Inner			Shelves supplied /	1		
Туре	volume (I)	WxDxH ext. (mm)	WxDxH int. (mm)	max.	Pk	Cat. No.	
C 150, right-hinged door	150	680x832x819	500x500x600	3/6	1	390-6068	
C 150, right-hinged door, stacking set of 2 incubators, with stacking adapter	2x150	680x815x1783	500x500x600	3/6	1 set	390-6070	
C 150, left-hinged door	150	680x832x819	500x500x600	3/6	1	390-6069	
C 150, left-hinged door, stacking set of 2 incubators, with stacking adapter	2x150	680x815x1783	500x500x600	3/6	1 set	390-6071	

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# **Cell Culture**

CO<sub>2</sub> Incubators

# CO<sub>2</sub> Incubators, HERAcell® i Series

Thermo Scientific



#### Temperature range: Ambient +3 to 55 °C, volume 150 or 240 I

CO<sub>2</sub> incubators which provide an ideal in-vitro environment, clean, reliable and user friendly, for the protection of valuable samples and for optimal cell growth. The HERAcell® i series CO<sub>2</sub> incubators provide stable, accurately monitored growth conditions offering unsurpassed protection against contamination for valuable cell and tissue cultures. Extremely short recovery times enhance cell growth. They are available in two practical sizes and two inner chamber designs, non-corrosive stainless steel or 100% antimicrobial solid copper.

- Optimum growth cultures thanks to secure and stable incubation conditions
- Outstanding permanent protection from contamination saves time and prevents

the loss of cultures

- Reliable contamination thanks to fully automatic 90 °C ContraCon decontamination routine with proven effectiveness
- Cultures protected from drying out by unique fast humidity recovery times
- All HERAcell® i incubators are available with optional O2 control

**Design**: The iCAN™ (Interactive Control Access Navigator) touchscreen improves monitoring and control, gives quick access to all the important incubation parameters and provides trend analysis for convenient evaluation of the unit's performance. The control is fitted on the door to ensure it is easily accessible and clearly visible. Choice of several languages. Any changes made to the cultivation conditions are displayed directly via protocols and user recordings on the screen. Glass doors have safety interlocks, which ensure that the inner doors are not left open accidentally.

Shelves: Supplied with 3 stainless steel or solid copper shelves, 10 or 12 shelf positions depending on model.

Cleaning and disinfection: Innovative ContraCon 90 °C decontamination routine using moist heat ensures a simple and reliable cleaning process.

**Safety:** Solid copper interior fitting verifiably prevent the growth of bacteria and fungi by natural means. Visual alarm signals on the display.

**Control**: Short humidity recovery times. Units have a large, directly heated water reservoir as well as up to five times quicker humidity recovery times than conventional incubators with a water tank. Audible and visual alarms when water level is low. Optional  $O_2$  control unit with Auto-Cal for applications that require hypoxic or hyperoxic conditions. The HERAcell® i series offers two optional  $O_2$  control ranges.

Humidity: Constant humidity 95 ±3% RH.

Connections: Mains connection 230 V, 50-60 Hz.

Technical data: Temperature deviation ± 0.1 °C, nominal power: 580 W (150i), 640 W (240i).

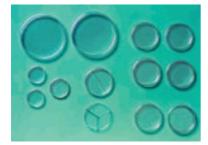
**Accessories**: Available with optional TC-CO<sub>2</sub> or IR-CO<sub>2</sub> sensors. For an automatic CO<sub>2</sub> control unit that is accurate and reliable, there is the choice between the standard thermal conductivity sensor (TC) or the dual-beam infrared sensor (IR), recommended if the temperature and humidity change frequently.

	Inner volume	WxDxH ext.	WxDxH int.	Shelves supplied /		
Description	(I)	(mm)	(mm)	max.	Pk	Cat. No.
HERAcell® 150i, dual chamber,						
stainless steel inner chamber,	150	637x782x867	470x530x607	3/10	1	390-4304
complete with base frame						
HERAcell® 150i, dual chamber,						
solid copper inner chamber,	150	637x782x867	470x530x607	3/10	1	390-4305
complete with base frame						
HERAcell® 150i, stainless steel	150	637x782x867	470x530x607	3/10	1	390-4306
inner chamber	100	001 X1 02 X001	+100000001	3/10		330-4300
HERAcell® 150i, solid copper	150	637x782x867	470x530x607	3/10	1	390-4307
inner chamber	100	001 X1 02 X001	+1 0X000X001	0/10		000 4001
HERAcell® 240i, stainless steel	240	780x834x934	607x583x670	3/12	1	390-4308
inner chamber	2-10	7 0070047004		O/ 12		000 4000
HERAcell® 240i, solid copper	240	780x834x934	607x583x670	3/12	1	390-4309
inner chamber	210	7.00/100-1/00-1		O, 12		200 4000

**Petri Dishes** 

# **Petri Dishes**





# **Transparent PS**

Aseptic: manufactured under strict aseptic conditions using on line production and packaging. Sterile: irradiated with 10 kGy. Proof of sterility and batch number on the box.

- Excellent optical quality
- Stringent quality control procedures
- Compliance with automatic plate pourers

Certificates on request

		Height				
Version	Ø (mm)	(mm)	Sterile	Pk	Cat. No.	
Contact dish	65	14.5	+	720	391-1504	•
High, with one vent	90	16.2	-	700	391-1518	•
riigii, witii one vent	90	16.2	+	700	391-1521	•
High, with triple	90	16.2	-	700	391-1517	•
vents	90	16.2	+	700	391-1520	•
High without wonto	90	16.2	-	700	391-1519	•
High, without vents	90	16.2	+	700	391-1522	•
	55	14.2	-	1620	391-0865	•
	55	14.2	+	1620	391-0895	•
	90	14.2	-	600	391-0875	•
With triple yents	90	14.2	+	600	391-0878	•
With triple vents	90	14.2	-	825	391-0891	•
	90	14.2	+	825	391-0892	•
	140	20.6	-	176	391-1500	•
	140	20.6	+	176	391-1502	•
	90	14.2	-	600	391-0877	•
	90	14.2	+	600	391-0880	•
	55	14.2	-	1620	391-0866	•
Without vents	55	14.2	+	1620	391-0868	•
without vents	90	14.2	-	825	391-0893	•
	90	14.2	+	825	391-0894	•
	140	20.6	-	176	391-1501	•
	140	20.6	+	176	391-1503	•
With vents	90	14.2	-	825	391-1546	

# Petri Dishes, Star™ Dish Phoenix



For simple colony counting.

- Stackable
- Patented ribs guarantee stability during casting
- Venting system avoids condensation

		Height			
Version	Ø (mm)	(mm)	Pk	Cat. No.	
Small diameter	40	12.5	720	710-3504	
Small diameter	47	12.5	750	710-3502	
Without vents	55	15	600	710-3513	
With 4 vents	55	15	600	710-3512	
With 3 vents	85	15	600	710-3511	
Stackable, with 4 vents	90	15	600	710-3505	
With 4 compartments	90	15	600	710-3519	
Stackable, without vents	90	15	600	710-3506	
Stackable, with vents	90	15	600	710-3517	
Stackable, with 4 vents	90	15	600	710-3508	
0	90	15	600	710-3507	
Stackable, without vents	90	13	600	710-3514	
With 4 vents	90	15	600	710-3515	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	90	20	384	710-3510	
Without vents	90	15	600	710-3516	
With 2 compartments	90	15	600	710-3509	
With 3 compartments	90	15	600	710-3518	
Large diameter	100	15	264	710-3503	

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# Petri Dishes

		Height			
Version	Ø (mm)	(mm)	Pk	Cat. No.	
Large Diameter	140	15	120	710-3521	
Without vents	140	15	120	710-0599	
With 6 vents	140	20	90	710-0600	
Without vents	140	20	90	710-0601	
With 6 vents	140	25	72	710-0602	
Without vents	140	25	72	710-0603	
Contact plate	60	25	600	710-0598	

# **BD Falcon™ Petri Dishes, Sterile**

# **BD Biosciences**



#### PS

Manufactured in accordance with the current FDA Quality System.



www.vwr.com

- Products are gamma irradiated
- Flat, distortion free optics
- Stacking rings allows for easier stacking and handling
- Durable construction for stable dish manipulation

		Height			
Version	Ø (mm)	(mm)	Pk	Cat. No.	
BD Optilux™	100	20	200	391-1996	
2 compartments	100	15	500	391-1995	
4 compartments	100	15	500	391-1999	
Tight fit lid	50	9	500	391-1997	
Integrid, round with 20 mm	150	25	100	391-2000	
moulded-in grid	100	20	100		
Ctandand	100	15	500	391-2002	
Standard	150	15	100	391-2003	
Easy-Grip	35	10	500	391-1998	
Easy-Grip	60	15	500	391-2001	
Integrid, square with 13 mm	100	15	300	391-2004	
moulded-in grid		10		001 2004	

# Petri Dishes Greiner bio-one



Made from crystal clear PS for best possible use in microscopic applications. Versions with or without vents.

- Easily stackable
- Heavy construction for good thermal resistance when working with hot agar
- With vents for better gas exchange or without vents for long incubation times **Packaging:** Packaged in sets of 20/480 or 20/600 and 15/120 plates.

		Height			
Version	Ø (mm)	(mm)	Pk	Cat. No.	
With 3 vents	35	10	740	391-2072	
with 5 vents	60	15	560	391-2073	
With 3 vents, sterile	90	16	480	391-2077	
With 3 vents	90	15	480	391-2075	
	94	16	480	391-2076	
With vents, heavy construction	100	16	420	391-2078	
Without vents	94	16	480	391-3661	
Without vents, heavy construction	94	16	480	391-3662	
With vents, heavy construction	90	20	360	391-2079	
With vents	145	20	120	391-3665	
Square (120x120) with vents	-	17	240	391-2080	

# **Petri Dishes**



#### **Transparent PS**

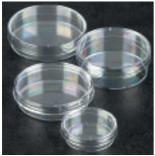
Ideal for food industry or laboratories. These dishes are produced in class 100 manufacturing environment, ensuring high level of asepticity (ISO 5). Product label with batch number on each carton.

- · Excellent optical quality
- · Stable stacking thanks to the stacking ring
- High level of mechanical resistance and up to 55 °C

Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
With triple vents	90	14.2	825	391-1505	•
With one vent	90	14.2	825	391-1506	
Without vents	90	16.2	825	391-1507	•
With one vent	90	16.2	700	391-1509	

# Petri Dishes, Sterilin®





High quality single use petri dishes are moulded in a specially developed grade of crystal polystyrene and are suitable for all bacteriological applications. 90 mm dishes are manufactured and packed in aseptic conditions. The range includes 50 mm and 60 mm dishes, ideal for use in vacuum tests using membrane filters for microbiological analysis of liquids; large dishes for antibiotic assays and sensitivity testing; compartmented dishes for culturing on two or three different media using the same plate. The Repli dish has 25 compartments each measuring 1.8 cm square (capacity 5 ml) and has many applications. The 55 mm Contact plate is used for surface sampling in the food industry, hospitals and other areas where contamination levels are of importance. It has a surface area of 24 sq cm and there is a numbered grid on the base to facilitate colony counting. These plates should be poured on a cold surface to enhance the meniscus.



- Suitable for use with automatic plate pouring machines
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- Ideal for use with different media or when savings in media / incubator space are required (with compartments)

		Height			
Version	Ø (mm)	(mm)	Pk	Cat. No.	
Triple vent	35	11	800	391-2019	
Deep, single vent	50	20.3	500	391-2022	•
Shallow, single vent	52	14.5	700	391-2020	•
No vent	55.5	12	1620	391-2041	
Triple vent	55.5	12	1620	391-2042	
Single vent	60	15.1	540	391-2021	
Contact plate	67	10.5	300	391-2031	
Single vent	89.2	16	500	391-2015	•
Triple vent	89.2	16.2	500	391-2016	•
Triple vent, 2 compartments	89.2	16.2		391-2029	
Triple vent, 3 compartments	89.2	16.2	500	391-2030	
Square, 100x100 mm	101.6	21.1	120	391-2018	•
Square, 100x100 mm, Repli dish with 25 compartments	101.6	20.8	120	391-2017	•
Triple vent	138.9	21.1	80	391-2028	•



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# **Cell Culture**

**Petri Dishes** 

# **Petri and Contact Dishes**

Nunc™



# Optically clear polystyrene

Contact dish with printed grid, useful for sampling in hospital environments as well as in food science and the pharmaceutical industry.

- Ideal for automated systems
- · Radiation sterilised

		Height				
Version	Ø (mm)	(mm)	Sterile	Pk	Cat. No.	
Contact dish for 35 ml	145	21	-	180	710-2510	•
Contact dishes with grid for 7.7 ml	67	15	+	396	710-2507	•
Petri dish vented for 12.5 ml	100	15	-	320	391-8020	•

# Petri Dishes, Steriplan® DURAN Group



# Soda-lime-glass

 Bottom dish and lid inside and outside microscopic flat, free of bubbles and other imperfections

Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
	40	12	1	391-2805	•
	60	15	1	391-2810	•
	80	15	1	391-2820	•
	100	10	1	391-2831	•
	100	15	1	391-2830	•
Petri dish	100	20	1	391-2840	•
	120	20	1	391-2850	•
	150	25	1	391-2860	•
	180	30	1	391-2870	•
	200	30	1	391-2880	•
	200	45	1	391-2890	•

# **Petri Dishes**



CrystalPS plates specially adapted to the needs of all users. All plates are manufactured under aseptic conditions according to the cleanroom technology.

- Perfect flatness to ensure the agar's homogeneity
- · Stable stacking
- Retains shape up to 55 °C, high level of mechanical resistance
- Compatible with the most industrial automatic agar-pouring machines

		Height				
Version	Ø (mm)	(mm)	Sterile	Pk	Cat. No.	
With 3 vents -	100	14	+	500	391-2056	•
Willi 5 Vents -	100	14	-	500	391-2057	•
With 1 vent	90	14.2	+	825	216-0509	•

# **Contact Plate**



This plate is used in the pharmaceutical or food-processing industry and also in hospital environments for surfaces such as skin, operating tables and work surfaces.

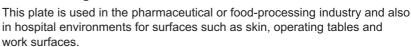
- The moulded grid at the bottom makes it possible to identify contamination per cm2
- The unique closing system grid lid ensures safety during transport
- The domed base guarantees a saving in agar while maintaining the surface sampling
- Stable stacking

Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
With 3 vents	65	14.5	720	391-2064	•

# Petri Dishes, Duroplan® DURAN Group



# **Borosilicate glass**





- Allow even distribution of culture media
- Distortion-free transparency
- Resistant against temperature and chemicals

Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
	54.5	20	1	391-0810	•
	74	20	1	391-0820	•
Duroplan®	94	15	1	391-0830	•
Duropian	94	20	1	391-0840	•
	114	20	1	391-0850	•
	143	26.5	1	391-0860	•

# Petri dishes



# Soda-lime glass

- · Bottom and lid flat inside and out
- A cost-effective alternative

Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
	60	15	1	391-2710	•
	80	15	1	391-2720	•
	100	15	1	391-2730	•
	100	20	1	391-2740	•
	120	20	1	391-2750	•
	150	25	1	391-2760	•
	180	30	1	391-2770	
	200	30	1	391-2780	•

# Petri Dish



#### Flint glass.

Can be autoclaved at a temperature of 120 °C



Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
Petri dish, flint glass	100	15	18	391-2256	•

# **Petri Dishes**



# Pyrex borosilicate glass. Complete with lid.

- · Chemically resistant
- Specially formed to ensure even wall thickness and consistent optical performance
- Will withstand repeated autoclaving

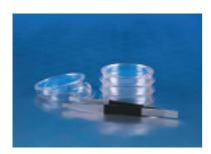
Version	Ø (mm)	Height (mm)	Pk	Cat. No.	
Petri dish, glass	60	20	10	391-2023	•
	80	20	10	391-2024	•
	100	20	10	391-2025	•
	120	20	10	391-2026	
	150	20	10	391-2027	

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**Petri Dishes** 

# **Petri Dishes with Absorbent Pads**





#### PS, absorbent pads cellulose

Ideal for microbiological analysis when performing the Membrane Filter (MF) Technique. Filter size accepts 47 mm membrane filter.

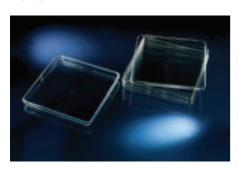


- · Gamma irradiated for sterilisation, no dangerous EtO residuals
- Easy to use, opens easily with one hand, yet closes to a tight seal
- Uses less space on the lab bench or in the incubator with easy stacking base

	Ø	Height				
Version	(mm)	(mm)	Sterile	Pk	Cat. No.	
Polystyrol	47	9	+	100	516-8020	•
Petridish w/o absorbent pads	50	9	+	500	516-8021	•
Petridish w/o absorbent pads	50	9	+	100	516-8029	•
Petri dishes, with absorbent pads	50	9	-	100	516-8032	•

# **Bioassay Dishes**

Nunc™



#### PS, sterile, with lid

Useful for screening large numbers of colonies in cloning experiments. Low profile dishes designed for genomic screening and colony picking.



- Can be used for culturing bacteria and fungi; also suitable in agar diffusion
   assays
- Can be used as a moisture chamber for incubation of MicroWell™ plates
- Lined with wet filter paper can also be used as an incubation chamber for in situ hybridisation
- · Large growth area
- Low profile dish fits robotic instruments

	Recommended working volu	me			
Description	(ml)	WxDxH ext. (mm)	Pk	Cat. No.	
Bioassay dishes, 500 cm <sup>2</sup> surface	225	245x245x25	16	734-2179	
area	223	243,243,23	10	134-2113	

# **Absorbent Pad Kits**



One-handed dispensing of cellulose absorbent pads 45,5 mm Ø

Absorbent pads are ideal for absorbing broth media to culture colonies in accordance with the Membrane Filter (MF) Technique.

Enables user to dispense a clean cellulose pad into a Petri dish whenever needed without touching the pad. Handy dispenser kit holds one tube of one hundred absorbent pads (ten tubes included).

Description	Pk	Cat. No.	
Sterile	1000	516-9012	•
Non-sterile	1000	516-7850	•

#### **Accessories for Petri Dishes**

# **Petri Dish Racks**

Nalgene



# PC frame, white PC posts

For up to 72 plastic round dishes (60x15 mm). Simple assembly required.

- · Smooth, rounded corners
- Finger-grip handle and rubber feet make carrying safe and secure
- Petri Dish Rack can be decontaminated by heat sterilization

WxDxH: 203x298x152 mm

Pk	Cat. No.
1	710-4106

# **Petri Dish Racks**

**Nalgene** 



# Acrylic frame, white PC posts

For up to 54 plastic round dishes (100x15 mm) or 42 glass round dishes (100x15 mm). Simple assembly required.



- Finger-grip handle and rubber feet make carrying safe and secure
- Petri Dish Rack can be decontaminated by heat sterilization

WxDxH: 203x343x235 mm

Pk	Cat. No.	
1	391-2161	•

# **Petri Dish Dispensers**

**Heathrow Scientific** 



# **Acrylic**

This sturdy dispenser will hold up to 20  $\varnothing$  90 mm Petri dishes in two easy-to-access partitions.

- · Place on the counter or mount on a wall
- Solid and clear
- · Mounting screws included

WxDxH: 203x102x229 mm

Pk	Cat. No.	
1	391-1165	•

# Petri Dish Carrying Rack, Poxygrid®



# Not suitable for glass Petri dishes

- · Easily loaded and emptied from the top
- · Epoxy coated steel wire rack
- For plastic Petri dishes Ø 90 and 100 mm

WxDxH: 108x108x356 mm (1 stack, for 20 dishes) WxDxH: 343x105x305 mm (3 stacks, for 42 dishes)

Description	Pk	Cat. No.	
1 Stack	1	391-2011	•
3 Stacks	1	391-2013	•

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#### **Cell Culture**

**Innoculating Needles and Accessories** 

# **Inoculating Loops in Resealable Bags**





The resealable bags can be easily opened with one hand. The loops and needles are placed upside down in the bag in order to guarantee purity as long as possible. The loops are colour coded and rigid or flexible versions are available. Optional holder for bags is available.



- · Gamma sterilised
- · Packaged in resealable bags
- The handle has a hexagonal shape for easy and secure handling

Packaging: 40 loops in a bag (25 bags per pack)

**Delivery Information:** Delivered with a certification of calibration in each box.

Description	Capacity (µI)	Colour	Packed	Pk	Cat. No.	
Loops, rigid	1	dark green	40	1000	612-9360	•
	10	dark blue	40	1000	612-9359	•
Loops, flexible	1	light green	40	1000	612-9361	•
	10	light blue	40	1000	612-9362	•
Loops, Ø 1.45 mm, long, 20 cm	_	violet	40	1000	612-9366	•

#### **Accessories**

Description	Capacity (µI)	Colour	Packed	Pk	Cat. No.	
Holder for resealable packs	-	transparent	-	1	612-9365	

# **Inoculating Loops and Needles in Dispenser Tubes**





Calibrated disposable inoculating loops made from flexible or rigid plastic to cater to different applications and preferences of microbiologists.



- Colour-coded for easy product identification
- Conveniently packaged in anti-roll tubes with push-on resealable cap
- Fast, easy and secure access to the loops, without the need for a separate holder
- Loops have an ultra smooth surface for easy streaking and length of 210 mm

**Delivery Information:** Calibration certificate supplied with every pack.

Description	Capacity (µI)	Colour	Packed	Pk	Cat. No.	
Inoculating loops, rigid	1	dark green	50	1000	612-2494	•
Inoculating loops, flexible	1	light green	50	1000	612-2497	•
Inoculating loops, rigid	10	dark blue	50	1000	612-2496	•
Inoculating loops, flexible	10	light blue	50	1000	612-2498	•
Inoculating needles Ø 1.45 mm	_	violet	50	1000	612-2495	•



# Dehydrated or ready-to-use media? All you need!

See 'Microbiology' section Chapter 7



# **Innoculating Needles and Accessories**

# **Inoculating Loops**





These loops ensure consistent wetting and complete liquid transfer. Available rigid or flexible, the loops have round edges for gentle treatment of the agar.

- · Gamma sterilised
- Colour coded
- · Hexagonal shaft for easy handling

Delivery Information: Delivered with a certification of calibration in each

Description	Capacity (µI)	Colour	Packed	Pk	Cat. No.	
	1	dark green	bags of 10	500	612-9351	•
Loops, rigid	1	dark green	bags of 20	1000	612-9352	•
Loops, rigid –	10	dark blue	bags of 10	500	612-9353	•
•	10	dark blue	bags of 20	1000	612-9354	•
	1	light green	bags of 10	500	612-9355	•
Loops flovible	1	light green	bags of 20	1000	612-9356	•
Loops, flexible —	10	light blue	bags of 10	500	612-9357	•
	10	light blue	bags of 20	1000	612-9358	•

# **Inoculating Needles and Loops**

Nunc™



# PS, sterile

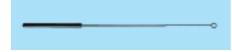
Disposable, problem-free inoculation with smooth loop surface.



- Meet semi-quantitative standard for handling samples
- Surface treated for enhanced droplet adhesion
- Non-toxic

Description	Capacity (µI)	Colour	Packed	Pk	Cat. No.	
-	1	transparent	12	2400	710-2508	•
Loona	1	transparent	50	4000	734-2138	•
Loops	10	blue	12	2400	710-2509	•
	10	blue	50	4000	734-2137	•
Needles	-	yellow	12	2400	734-2140	•
	_	vellow	50	4000	734-2139	•

# **Inoculating Loops, Microstreaker**



Inoculation loop of nickel-chromium wire of not more than 60 mm length, conforming to Howie recommendations.

Colour coded handle

Description	Capacity (µI)	Pk	Cat. No.	
Large, 5.05 mm ID, red handle	10	5	300-0501	•
Medium, 2.91 mm ID, green handle	3	5	300-0502	•
Small, 2.26 mm ID, blue handle	2	5	300-0503	

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# **Cell Culture**

**Innoculating Needles and Accessories** 

# **Inoculating Loops, Disposable, Microloops**



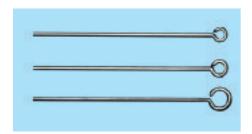
Sterile, disposable inoculating loops.

- · Colour coded plastic
- · Moderately flexible



Description	Capacity (µI)	Pk	Cat. No.	
Land	10	1000	300-0510	•
Loop	1	1000	300-0512	
	10	1000	300-0500	•
Loop peel pouch	1	1000	300-0511	

# **Inoculating Loops**



These NiCr 8020 loops are available in a range of sizes and lengths with internal diameters ( $\emptyset$ ) of 1.5, 2.5 or 4 mm. They are heat resistant and can be flamed to sterilise the loop. Diameter of wire: 0.6 mm.

631-7131

Description	Pk	Cat. No.	
Loops, 50 mm, Ø 1.5 mm	10	631-7131	•
Loops, 50 mm, Ø 2.5 mm	10	631-7132	•
Loops, 50 mm, Ø 4.0 mm	10	631-7133	•
Loops, 75 mm, Ø 1.5 mm	10	631-0084	•
Loops, 75 mm, Ø 2.5 mm	10	631-0085	•
Loops, 75 mm, Ø 4.0 mm	10	631-0086	•



# **Holders for Needles and Loops**

With black plastic handle.

#### 631-0620

Description	Pk	Cat. No.	
Holder, length 170 mm	5	631-0620	•
Holder, length 240 mm	5	631-0621	•

# **Inoculating Needles**

Plastic, single use, sterile Packaging: Peelable sachets.







Description	Ø (mm)	Length (mm)	Colour	Pk	Cat. No.	
Mini inoculation needles	1.15	150	blue	500	612-2654	
Inoculation needles	1.45	200	violet	1000	612-2655	



Maximum food safety with Merck foodproof® real-time PCR kits

See 'Microbiology' section Chapter 7



# **Innoculating Needles and Accessories**

# **Inoculating Needles**

Sterile disposable plastic.

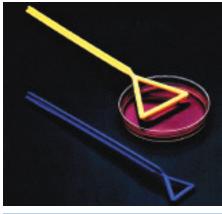
- · Moderately flexible
- · Colour coded plastic



Description	Colour	Packed	Pk	Cat. No.	
Needle	green	peel pouch	1000	632-0056	
Necule	green	20/bag	1000	632-0057	

# **Spreaders**





Convenient and economical, these cell spreaders are designed to simplify bacterial culture work.



• Durable enough to be autoclaved and used again



Description	Colour	Packed	Pk	Cat. No.	
Sterile	blue	Individually wrapped	25	612-2688	•
	yellow	Individually wrapped	25	612-2690	•
Non storile	blue	Bulk	25	612-2687	•
Non sterile	yellow	Bulk	25	612-2689	•

# Spreaders, L-shaped





The foot of the spreader has a completely smooth, rounded surface, free of rough edges and imperfections. It enables even spreading of liquid samples across the surface of agar plates without gouging or cutting the medium.



- Surface treated to enhance adhesion of droplets
- Non-toxic
- Gamma irradiated

Dimensions: 135x35 mm



Description	Colour	Packed	Pk	Cat. No.	
Spreaders, L-shaped	blue	individually packed	500	612-1560	•
Spreaders, L-shaped	blue	bag of 5	1000	612-1561	•

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391.11

# **Cell Culture**

**Innoculating Needles and Accessories** 

# Spreaders, T-shaped





# Plastic, sterile

Designed for spreading and dispersing liquids across the surface of agar culture plates. Used for performing bacterial (CFU plate counts) on water, milk and other liquid samples.



- · Smooth rounded surfaces to prevent cutting or gouging of agar
- T-Shaped to ensure even pressure is applied while spreading

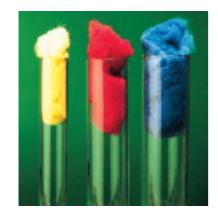
Description	Colour	Packed	Pk	Cat. No.	
	blue	1/peel pouch	500	612-2651	•
T-Shaped spreader	blue	5/peel pouch	1000	612-2652	•
	blue	10/peel pouch	1000	612-2653	•

# **Cotton Wool**

Absorbent

Description	Pk	Cat. No.	
Cotton wool, hospital quality	1 Roll	118-0300	•
Cotton woo, BPC (British Pharmacy Code)	500 g	118-0301	•

# **Cotton Wool**



- · Available in choice of colours
- Non-absorbent

Description	Pk	Cat. No.	
Cotton wool, yellow	500 g	391-2263	
Cotton wool, white	500 g	391-2264	•

BugStopper™ Whatman





For bacterial, viral and cell cultures. BugStopper™ is a unique reusable cap that provides reliable sterile ventilation for culture containers. The cap is made of biologically inert silicone. The ventilation device consists of an ultrafine glass microfibre filter, which is reinforced with a coating of polyester monofilament. The ventilation device is surrounded by a reinforcement ring made of stainless steel.



- For preserving sample integrity even during use, autoclavable
- The BugStopper™ can be punctured with a needle for sample collection or infusions even while it is in use
- · Cost-efficient, can be used repeatedly
- · Available in 2 sizes to fit a variety of culture flasks

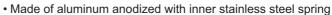
Description	for Ø (mm)	Pk	Cat. No.	
BugStopper™	28	10	516-1720	
	28	100	516-1721	
BugStopper™ 10	37	10	516-1722	
	37	50	391-0148	

# **LABOCAP Caps**



#### **Aluminium**

Without handle. Cap for sterile but not hermetic closing of test tubes



- · Springs clamp against the outer wall of the vessel
- For sterile, non-hermetic sealing of vessels
- · Anodised and coloured
- Autoclavable

Description	for Ø (mm)	Pk	Cat. No.	
•	12/13	10	391-5901	•
LABOCAP, silver	15/16	10	391-5907	•
LABOCAP, Sliver	17/18	10	391-5910	•
	19/20	10	391-5913	•
LABOCAP, blue	12/13	10	391-5902	
E iB Corii , bido	17/18	10	391-5911	•
	12/13	10	391-5903	•
LABOCAP, red	14/15	10	391-5906	
	17/18	10	391-5912	•

# **LABOCAP Caps**



#### **Aluminium**

With handle. Cap for sterile but not hermetic closing of test tubes.



- · Made of aluminum anodized with inner stainless steel spring
- · Springs clamp against the outer wall of the vessel
- For sterile, non-hermetic sealing of vessels
- · Anodised and coloured
- Autoclavable

Description	for Ø (mm)	Pk	Cat. No.	
	12/13	10	391-5921	
	14/15	10	391-5924	
LABOCAP, silver	15/16	10	391-0094	•
	17/18	10	391-5930	
	19/20	10	391-5933	
LABOCAP, blue	17/18	10	391-5931	•
LABOCAP, red	17/18	10	391-5932	

# **Erlenmeyer Caps**



#### **Aluminium**

- · Anodised and blue coloured
- Springs made of chromium-nickel steel
- · Springs clamp against the outer wall of the vessel
- Autoclavable





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# **Cell Culture**

Cell Culture - Flasks

# **BD Falcon™ Cell Culture Flasks**

#### **BD Biosciences**



# PS, tissue culture-treated, sterile, non-pyrogenic



Vacuum-gas plasma tissue culture treatment ensures consistent cell attachment, spreading and growth.

- Easy-to-read printed volumetric graduations, and writing patch
- Vented caps incorporate a 0.2 µm hydrophobic membrane
- Phenolic caps contain non-toxic liners
- Convenient, peel-open, medical-style packaging ensures flask sterility is maintained

Growth area (cm²)	Capacity (ml)	Neck	Сар	Pk	Cat. No.	
12.5	25	canted	plug-seal	100	734-0010	•
12.5	25	canted	vented	100	734-0043	•
	50	canted	plug-seal	200	734-0009	•
	50	canted	vented	100	734-0044	•
25	70	canted	plug-seal	200	734-0031	
	70	canted	vented	100	734-0045	•
	70	canted	phenolic	200	734-0030	
	250	straight	plug-seal	100	734-0012	•
	250	straight	vented	100	734-0046	•
75	250	straight	phenolic	100	734-0011	
75	250	canted	plug-seal	60	734-0049	•
	250	canted	vented	60	734-0050	•
	250	canted	phenolic	60	734-0388	•
150	600	canted	plug-seal	40	734-0266	
130	600	canted	vented	40	734-0267	•
	750	straight	plug-seal	40	734-0014	•
175	750	straight	vented	40	734-0047	•
	750	straight	phenolic	40	734-0018	
175*	750	straight	vented	40	734-0964	•
225	800	canted	plug-seal	30	734-1031	
220	800	canted	vented	30	734-0957	•
300	1900	straight	plug-seal	12	734-0039	
300	1900	straight	vented	12	734-0048	

<sup>\*</sup> Bar-coded (robotics/automation compatible)

Note: culture area and capacity are nominal

# Cell Culture Flasks, Nunclon™Δ

# Nunc™



#### PS, sterile

Cell culture flasks with surface areas from 25 to 500 cm<sup>2</sup>, with filter or vent/close caps and straight or angled neck.



- · Standard flasks have short, wide necks for easy access
- SoLo Flasks, for standing cultures, have a low profile design, which saves incubator space (four stacked SoLo Flasks occupy the same space as three conventional flasks), and have a large bore angled neck, which facilitates pipette and cell scraper access
- TripleFlasks have the same external dimensions as a standard 175 cm<sup>2</sup> flask, but have three parallel growth surfaces providing a total culture area of 500 cm<sup>2</sup>, making them ideal for scale-up
- Excellent optical quality and individually leak-tested
- Nunclon™∆ certified surface treatment for optimal cell growth and attachment

# **Cell Culture**

Cell Culture - Flasks

#### Standard flasks

	Recommended					
Growth area (cm²)	working volume (ml)	Neck	Сар	Pk	Cat. No.	
25	7	angled	filter	160	734-2004	•
25	, –	angled	vent/close	160	734-2081	•
80	30 –	straight	filter	50	734-2131	•
80	30 -	straight	vent/close	50	734-2046	•
175	68 –	straight	filter	32	734-2129	•
		straight	vent/close	32	734-2067	•

#### SoLo flasks

	Recommended					
Growth area (cm²)	working volume (ml)	Neck	Сар	Pk	Cat. No.	
185	75	angled	vent/close	50	734-2034	_
103		angled	filter	50	734-2035	•

# Triple flasks

	Recommended					
Growth area (cm²)	working volume (ml)	Neck	Сар	Pk	Cat. No.	
500	200 -	straight	vent/close	32	734-2000	•
300	200 -	straight	filter	32	734-2001	•

# Caps for Nunclon™∆ flasks



# HDPE, sterile

Description	Pk	Cat. No.	
Filter caps for 25 cm² flasks	100	734-2159	
Filter caps for 175/185/500 cm² flasks	100	734-2153	
Vent/close caps for 175/185/500 cm² flasks	100	734-2152	

# Cell Culture Flasks, EasYFlasks™, Nunclon™Δ

# Nunc™



# PS, sterile

Designed to allow full access to the growth surface.

- Flask is opened or closed with 1/3 turn of the cap
- "Y" Mark caps allow visual verification of vent position, even when stacked in incubators
- Volume graduations on both sides of the flask
- Angled neck facilitates easy access
- Nunclon™∆ certified surface treatment for optimal cell growth and attachment

	Recommended					
Growth area (cm²)	working volume (ml)	Neck	Сар	Pk	Cat. No.	
25	7	angled	vent/close	200	734-2063	•
	,	angled	filter	200	734-2064	•
75	30 -	angled	vent/close	100	734-2065	•
		angled	filter	100	734-2066	•
175	55 –	angled	vent/close	30	734-2168	•
		angled	filter	30	734-2167	•

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392.2



# **Cell Culture**

Cell Culture - Flasks

Caps for EasyFlasks™



HDPE, sterile

Description	Pk	Cat. No.
Vent/close caps for 25 cm² flasks	100	734-2166
Filter caps for 25 cm² flasks	100	734-2165
Vent/close caps for 75 cm² flasks	100	734-2164
Filter caps for 75 cm² flasks	100	734-2163
Vent/close caps for 175 cm² flasks	100	734-2144
Filter caps caps for 175 cm² flasks	100	734-2145

# Cell Culture Flasks, Non-Treated

#### Nunc™



# PS flask, HDPE filter cap, sterile, non-pyrogenic

For culturing cells that do not require a treated surface. Ideal for hybridoma and suspension cultures.



- Canted neck flask for better accessibility
- Distinctive white cap for easy identification
- Extra caps provided in each carton

Capacity (ml)	Recommended working volume (ml)	Pk	Cat. No.	
70	7	200	734-2104	•
260	30	100	734-2069	•
645	55	30	734-1190	•



Cell Culture - Flasks

# **Cell Culture Flasks**

# Corning









# **Optically clear PS**

Available with a choice of treated surface. Corning® CellBIND® Surface increases surface wetability for more even and consistent cell attachment. Ultra-Low Attachment flasks feature a covalently bound hydrogel layer that minimises cell attachment, protein absorption and cellular activation.

- Treated for optimal cell attachment
- Printed with lot numbers for ease in traceability
- · Sterilised by gamma radiation
- · Certified non pyrogenic

# 25 cm<sup>2</sup> growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Rectangular, TC treated	canted	plug-seal	500	734-1700	
Rectangular, TC treated	canted	phenolic	500	734-1706	
Rectangular, TC treated	canted	vented	200	734-1712	•
Triangular, TC treated	angled	phenolic	500	734-1531	
Triangular, TC treated	angled	vented	200	734-1532	
Rectangular, CellBIND® surface	canted	vented	200	734-0090	
Rectangular, Ultra-Low Attachment	canted	vented	24	734-4140	

# 75 cm² growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Rectangular, TC treated	canted	plug-seal	100	734-1715	•
Rectangular, TC treated	canted	phenolic	100	734-1716	
Rectangular, TC treated	canted	vented	100	734-1713	•
Modified triangular	straight	phenolic	100	734-1543	
Modified triangular	straight	vented	100	734-1544	
Rectangular, CellBIND® surface	canted	vented	100	734-0091	
Rectangular, Ultra-Low Attachment	canted	vented	24	734-4139	

# 92.6 cm² growth area RoboFlask™ vessels

Description	Сар	Pk	Cat. No.	
Cell culture vessel for manual use, TC treated, with bar code	septum	100	734-4045	
Cell culture vessel for manual use, TC treated, with bar code	septum	50	734-4044	
Cell culture vessel for manual use, TC treated, with bar code	flat (without septum)	100	734-4046	
Cell culture vessel for manual use, TC treated, with bar code	flat (without septum)	50	734-4041	
Cell culture vessel for automation, CellBIND® surface, with bar code	septum	100	734-4042	
Cell culture vessel for automation, CellBIND® surface, with bar code	septum	50	734-4043	

# 100 cm<sup>2</sup> growth area low profile flasks

Description	Сар	Pk	Cat. No.
Low profile, CellBIND® surface	vented	60	734-4047
Low profile, TC treated	vented	60	734-4141

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#### **Cell Culture**

#### Cell Culture - Flasks

# 150 cm<sup>2</sup> growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Rectangular, TC treated	canted	plug-seal	50	734-1717	
Rectangular, TC treated	canted	phenolic	50	734-1718	
Rectangular, TC treated	canted	vented	50	734-1719	•
Rectangular, CellBIND® surface	canted	vented	50	734-0092	

#### 162 cm<sup>2</sup> growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Traditional, TC treated	straight	phenolic	25	734-1540	
Traditional, TC treated	straight	phenolic	25	734-1541	

#### 175 cm² growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Rectangular, TC treated	angled	plug-seal	50	734-1722	
Rectangular, TC treated	angled	vented	50	734-1723	
Rectangular, TC treated	angled	phenolic	50	734-1726	
Rectangular, TC treated, with bar code	angled	vented	84	734-1733	•
Rectangular, CellBIND® surface, with bar code	angled	vented	84	734-1214	
Rectangular, CellBIND® surface	angled	vented	50	734-0093	
Rectangular, CellBIND® surface	angled	phenolic	50	734-1206	

# 225 cm² growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Traditional, TC treated	angled	plug-seal	25	734-1724	
Traditional, TC treated	angled	vented	25	734-1725	•
Rectangular, TC treated	canted	phenolic	24	734-1519	
Rectangular, TC treated	canted	vented	24	734-1520	•
Traditional, CellBIND® surface	angled	vented	25	734-0094	

# 235 cm² growth area flasks

Description	Neck	Сар	Pk	Cat. No.	
Rectangular, CellBIND® surface, with bar code	angled	vented	42	734-4192	

# 1720 cm² growth area HYPERFlask™ vessels

Description	Pk	Cat. No.	
HYPERFlask with CellBIND® surface, bar coded	4	734-4009	
HYPERFlask with CellBIND® surface, bar coded	24	734-4010	

# **BD Primaria™ Cell Culture Flasks**

# **BD Biosciences**



# PS, tissue culture-treated, sterile, non-pyrogenic

The complex surface on BD Primaria<sup>™</sup> products is homogeneous and stable and is used to improve attachment and differentiation of a variety of cell types. The surface chemistry of BD Primaria<sup>™</sup> products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

- Unique, nitrogen-containing tissue culture surface chemistry improves attachment, spreading and growth for many primary cells or cell lines
- Vented caps incorporate a 0.2 µm hydrophobic membrane
- Optically clear and no special storage required
- · Convenient, peel-open, medical-style packaging

Growth area (cm²)	Capacity (ml)	Neck	Сар	Pk	Cat. No.	
25	50	canted	vented	100	734-0073	
		canted	plug-seal	200	734-0075	
7.5	050	straight	vented	100	734-0074	•
75	250	straight	plug-seal	100	734-0076	

<sup>\*</sup> Note: culture area and capacity are nominal



Cell Culture - Flasks

# **BD BioCoat™ Collagen I Cell Culture Flasks**

**BD Biosciences** 



# PS coated with rat tail collagen type I, sterile, non-pyrogenic



The uniform application of collagen type I to the surface of tissue culture vessels has been found to improve cell attachment and increase proliferation rates for a variety of normal or transformed mammalian cell types.

Growth area (cm²)	Capacity (ml)	Neck	Сар	Pk	Cat. No.	
		canted	vented cap	10	734-0158	
25	70	canted	vented cap	50	734-0289	
25	70	canted	plug-seal	10	734-0187	
		canted	plug-seal	50	734-0309	
		canted	vented cap	5	734-0159	•
	250	canted	vented cap	50	734-0290	•
75		canted	plug-seal	5	734-0147	
		canted	plug-seal	50	734-0283	
150	600	straight	vented cap	40	734-0291	
150	600	straight	plug-seal	40	734-0318	
		straight	vented cap	40	734-0292	
175	750	straight	plug-seal	5	734-0155	
	750	straight	plug-seal	40	734-0287	
		straight	vented cap	5	734-0161	

<sup>\*</sup> Note: Growth area and capacity are nominal

# BD BioCoat™ Gelatin Cell Culture Flasks

**BD Biosciences** 



# PS, coated with porcine gelatin, sterile, non-pyrogenic



392.6

BD BioCoat™ Gelatin provides an attachment and growth promoting substrate for the culture of a variety of cell types. Gelatin is commonly used in the culture of normal and transfected cell types, including vascular endothelial, muscle, embryonic stem (ES) and F9 teratocarcinoma cells. Gelatin is a heterogeneous mixture of water soluble proteins derived through the hydrolysis of collagen. Applications include promotion of cell attachment and spreading of vascular endothelial cells (for instance, BME, BAEC, ES cells), C2C12 myoblasts and MM14 myoblasts; culture of normal and transfected F9 teratocarcinoma cells for gene expression studies; and culture of HUVEC for E-Selectin expression and VEGF induction.

- Gelatin substrate enhances the attachment of a variety of normal and transfected cell types
- Pre-treatment with gelatin eliminates time consuming preparation, saving time and money
- · Lot-to-lot consistency ensures reproducible results

Growth area (cm²)	Capacity (ml)	Neck	Сар	Pk	Cat. No.
75		canted	vented	5	734-0162
	250	canted	vented	50	734-0293
	230	canted	plug seal	5	734-0253
		canted	plug seal	50	734-0324

<sup>\*</sup> Note: culture area and capacity are nominal

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#### **Cell Culture**

Cell Culture - Flasks

# **BD BioCoat™ Poly-D-Lysine Cell Culture Flasks**

**BD Biosciences** 



# PS, coated with Poly-D-Lysine, sterile, non-pyrogenic



Poly-D-Lysine (PDL) is a synthetic compound that enhances cell adhesion and protein absorption by altering surface charges on the culture substrate. Poly-Lysine surface treatments support applications including attachment and spreading of a variety of cell lines; cell differentiation and neurite outgrowth; attachment of transfected cell lines; and survival of primary neurons in culture. As PDL is a synthetic molecule, it does not stimulate biological activity in the cells cultured on it, and it does not introduce impurities carried by natural polymers.

Growth area (cm²)	Capacity (ml)	Neck	Сар	Pk	Cat. No.	
25	70 –	canted	vented	50	734-0311	
25	70 -	canted	plug seal	50	734-0288	
75	250 -	canted	vented	50	734-0418	
	250 –	canted	plug seal	50	734-0306	
150	600 –	straight	vented	40	734-0312	
		straight	plug seal	40	734-0294	
175	750 -	straight	vented	40	734-0419	
	750 -	straight	plug seal	40	734-0308	

<sup>\*</sup> Note: culture area and capacity are nominal

# Cell Culture System, OptiCell™

Nunc™



OptiCell™ is a cell culture system for growing, monitoring and transporting cells. It consists of two parallel gas-permeable, cell culture treated PS membranes attached to a standard microtitre plate sized frame. Each side has a growth area of 50 cm², total 100 cm², with 75 µm thick membranes, 2 mm apart. Applications include transportation of live cells, hybridoma antibody production (OptiCell MAX), short-term freezing and thawing of cells, biomagnetic cell separation (OptiMag), cell imaging and staining, and transfection.

- Thin profile design maximises incubator space and reduces medium consumption (recommended medium/cell fill volume 10 ml for OptiCell and 30 ml for OptiCell MAX)
- Two resealing access ports provide closed growth environment with sterile fluid path, thereby reducing risk of contamination
- Barcoded for easy tracking and automatic handling

OptiCell™ is a registered trademark of BioCrystal, LTD

OptiCell™ kits and chambers

Description	Pk	Cat. No.	
OptiCell 1100 starter kit containing 20 OptiCell 1100 chambers, 1 rack, 1 knife, 50 tips, 2 caps, 1	1	734-2221	
optical shield, manual, 1 mini CD	'	754-2221	
	20	734-2222	
OptiCell 1100 chambers	100	734-2223	
	500	734-2224	

# OptiCeII™ MAX kits and chambers

Description	Pk	Cat. No.	
OptiCell MAX 2100 starter kit containing 5 OptiCell MAX 2100 chambers, 1 rack, 50 tips, hybridoma	4	734-2225	
antibody production protocol/manual	ı	734-2223	
		734-2226	
OptiCell MAX 2100 chambers	100	734-2227	

Cell Culture - Flasks

# OptiCell™ separation kit and magnet

Description	Pk	Cat. No.	
OptiMag cell separation kit containing 20 OptiCell 1100 chambers, 1 magnet, 1 rack, 50 tips, 2 clips,	1	392-0600	
OptiMag cell separation protocol/manual			
OptiMag magnet	1	392-0601	

# OptiCell™ mailer kit

Description	Pk	Cat. No.	
OptiCell mailer kit containing 5 OptiCell 1100 chambers, 50 tips, 5 OptiCell mailers, shipping protocol/manual	1	392-0602	
OptiCell mailer	10	392-0603	

#### **Accessories**

<b>Description</b> F	Pk −	Cat. No.	
OptiCell rack for OptiCell 1100 and 2100	1	392-0604	
OptiCell insertion tips 1	00	392-0605	
OptiCell knife	3	392-0606	

# **CELLine™ 1000 System**

#### **BD Biosciences**



CELLine™ 1000, a membrane-based, disposable cell cultivation system, guarantees high cell densities and is easy to use for recombinant protein expression and high yield monoclonal antibody (MAb) production.



- The CELLine<sup>™</sup> system yields antibody concentrations comparable to that
  of ascites one CELLine<sup>™</sup> flask can be used to produce as much antibody
  as 12 mice
- Harvest volumes result in antibody concentrations that are 50 to 100 times higher than both roller bottles and tissue culture flasks

Description	Pk	Cat. No.	
CELLine™ 1000	3	734-0389	

<sup>\*</sup> CELLine is a trademark of Integra Biosciences Inc.

# **BD Falcon™ Multiwell Cell Culture Plates**

# **BD Biosciences**



# PS, sterile, non-pyrogenic

All tissue culture treatments render polystyrene hydrophilic and result in the incorporation of a variety of anionic functional groups that support cell culture. To ensure reproducible results and conditions, all BD Falcon™ tissue culture treatment is performed in a vacuum chamber.

- Labyrinth lid, condensation rings, and deep well design control contamination, reduce evaporation, and minimise edge effects
- Reliable vacuum-gas plasma tissue culture treatment provides well-to-well and plate-to-plate consistency
- · Convenient, peel-open, medical-style packaging
- Individual and Ready-Stack (RS) trays are PET and recyclable

Colour: Clear

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# **Cell Culture**

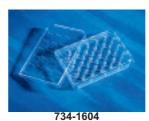
# **Cell Culture - Plates and Dishes**

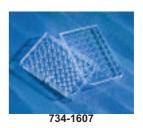
		Growth area				
Description	Volume (ml)	(cm²)	Packed	Pk	Cat. No.	
6-Well, TC-treated, flat-bottom, with lid	15.5	9.6	1/tray	50	734-0019	•
6-Well, TC-treated, flat-bottom, with lid	15.5	9.6	6/bag	36	734-0054	•
6-Well, TC-treated, flat-bottom, with lid	15.5	9.6	10/RS tray	60	736-2025	
12-Well, TC-treated, flat-bottom, with lid	6	3.8	1/tray	50	391-0006	•
12-Well, TC-treated, flat-bottom, with lid	6	3.8	6/bag	36	734-0055	•
24-Well, TC-treated, flat-bottom, with lid	3.5	2	1/tray	50	734-0020	•
24-Well, TC-treated, flat-bottom, with lid	3.5	2	6/bag	36	734-0056	•
48-Well, TC-treated, flat-bottom, with lid	1.4	0.75	1/tray	50	734-0028	•
48-Well, TC-treated, flat-bottom, with lid	1.4	0.75	6/bag	36	734-0058	
24-Well, TC-treated, flat-bottom, with lid	3.5	2	10/RS tray	60	736-2026	
96-Well, TC-treated, flat-bottom, with lid	0.37	0.32	14/RS tray	84	736-2027	
96-Well, TC-treated, flat-bottom, with lid	0.37	0.32	25/bag	100	734-1376	•
96-Well, TC-treated, round-bottom, without lid	0.32	0.36	1/tray	50	734-0026	
96-Well plate lid	-	-	1/bag	50	734-0022	
6-Well, non-treated, flat bottom with lid	15.5	9.6	1/tray	50	734-0948	•
24-Well, non-treated, flat bottom with lid	3.5	2	1/tray	50	734-0949	

# Multiple Well Cell Culture Plates, Costar® Corning











Clear PS, flat bottom, with lid

Available with a choice of surface treatments.

- Non reversible lids with condensation rings to reduce contamination
- · Uniform footprint for ease of stacking
- Individual alphanumeric codes for well identification
- · Sterilised by gamma radiation
- Certified non pyrogenic

Description Pk	Cat. No.	
6-Well plates, TC treated, individually wrapped 50	734-1599	•
6-Well plates, TC treated 100	734-1596	•
6-Well plates, Corning® CellBIND® surface 50	734-1210	
6-Well plates, Ultra-Low Attachment surface, individually wrapped 24	734-1582	•
12-Well plates, TC treated, individually wrapped 50	734-1598	•
12-Well plates, TC treated 100	734-1597	•
12-Well plates, Corning® CellBIND® surface 50	734-1211	
24-Well plates, TC treated, individually wrapped 50	734-1605	
24-Well plates, TC treated, individually wrapped 100	734-1604	•
24-Well plates, TC treated 100	734-1606	
24-Well plates, Corning® CellBIND® surface 50	734-1212	
24-Well plates, Ultra-Low Attachment surface, individually wrapped 24	734-1584	
48-Well plates, TC treated, individually wrapped 100	734-1607	•
48-Well plates, Corning® CellBIND® surface 50	734-4067	

TERIL

Cell Culture - Plates and Dishes

# MicroWell™ Plates and MiniTrays, Nunclon™Δ

Nunc™



# PS, high flange design, sterile

Ideal for cell culture, cloning, viral titrations, and cell fusion.

- Plate edges and lids designed to reduce evaporation
- Raised well rims reduce risk of cross-contamination
- · Lids shaped to facilitate stacking and handling
- 96 well footprint fits standard equipment
- Plates tolerate low speed centrifugation with spacer plate (Cat. No. 391-1934) as support

Colour: Clear

External LxW: MicroWell™ plates 128x86 mm; MicroWell™ MiniTrays 84x59

	Recommended working			
Description	volume (μl)	Pk	Cat. No.	
96 MicroWell™ plate, flat bottomed wells, with lid	200	50	734-2097	•
50 Microvveir plate, hat bottomed wells, with hid	200	160	734-2073	•
OC MC AM-HTM	200	50	732-2607	•
96 MicroWell™ plate, flat bottomed wells, without lid	200	180	732-2601	
96 MicroWell™ plate, round bottomed wells, with lid	200	50	734-2080	•
96 MicroWell™ plate, round bottomed wells, without lid	200	50	734-2033	•
60 MicroWell™ MiniTray, conical wells, with lid	8	150	734-2079	•
72 MicroWell™ MiniTray, conical wells, with lid	8	150	734-2005	

# Multidishes, Nunclon™∆

Nunc™



# PS, sterile, with lid

Useful in all areas of cell culture, including scale up and cloning.



- Raised well rims lower the risk of cross contamination
- Flat bottom wells allow optimum optical quality
- Nunclon™∆ certified

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
4-Well multidish, 66x66 mm	1.0	1.9	120	734-2176	•
6-Well multidish, 128x86 mm	3.0	9.6	75	391-8036	•
0-Well Multidisti, 120x00 mm	3.0	9.6	85	734-0991	•
12-Well multidish, 128x86 mm	2.0	3.5	75	734-2156	•
24-Well multidish. 128x86 mm	1.0	1.9	75	734-0992	•
24-Well Multidisti, 120x00 Milli	1.0	1.9	85	734-0993	•
48-Well multidish, 128x86 mm	0.5	1.1	75	734-2157	•
40-Well Mullidisti, 120x00 mili	0.5	1.1	85	734-1147	•

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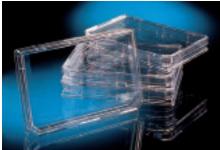
#### **Cell Culture**

Cell Culture - Plates and Dishes

# OmniTrays, Nunclon™∆

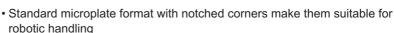
Nunc™

OmniTray



#### PS, sterile, with lid

Single well OmniTrays are ideal for a variety of uses.



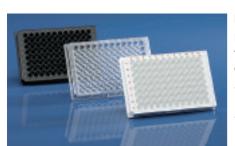
· Certified surface treatment for optimal cell growth and attachment

Culture area: 84 cm<sup>2</sup>

External dimensions: 128x86 mm

Description	Recommended working volume (ml)	Pk	Cat No	

# 96-Well Microplates for Cell Culture, BRANDplates®



#### PS, solid or with transparent base

Plates are available with different well shapes (round U-bottom, conical V-bottom, flat F-bottom or C flat bottom with curved edges), in different colours, and with a choice of cell culture treated surfaces.

- All BRANDplates<sup>®</sup> are alphanumerically labelled, stackable and compatible with most standard microplate readers and washers
- Standard 96-well plates have coloured alphanumeric code identifying surface type (cell culture treated orange, immuno treated blue, non-treated grey)
- White plates provide maximum reflection and minimum crosstalk during luminescence measurements; black plates provide minimum back light scatter

during fluorescence analyses

· Sterile plates are supplied individually wrapped with lid

BRANDplates® are non cytotoxic according to ISO 10993-5, free of endotoxins (<0.01 EU/ml), and free of DNA, DNase and RNase. Sterile products comply with ISO 11137 and AAMI guidelines.

#### cellGrade™

The standard surface for cultivation of adherent cell lines. Chemical groups on the surface of the plate bind to serum compounds, stimulating the growth of immobilised cells.

Description	Colour	Culture area (cm²)	Well volume	Pk	Cat. No.	
Standard plate with U-bottom	transparent	0.32	330 µl	50	735-2097	
Standard plate with V-bottom	transparent	0.33	360 µl	50	735-2098	
Standard plate with F-bottom	transparent	0.32	350 µl	50	735-2099	
Standard plate with F-bottom	white	0.32	350 µl	50	735-2100	
Standard plate with F-bottom	black	0.32	350 µl	50	735-2101	
Standard plate with C-bottom	transparent	0.25	350 µl	50	735-2102	
Transparent base with F-bottom	white	0.31	330 µl	50	735-2103	
Transparent base with F-bottom	black	0.31	330 µl	50	735-2104	

#### cellGrade™ plus

This surface has a protein like structure. Cultivation of cells in serum reduced media is possible. cellGrade™ plus surface is suitable for the cultivation of more fastidious cell lines.

Description	Colour	Culture area (cm²)	Well volume	Pk	Cat. No.	
Standard plate with F-bottom	transparent	0.32	350 µl	50	735-2116	
Standard plate with F-bottom	white	0.32	350 µl	50	735-2117	
Standard plate with F-bottom	black	0.32	350 µl	50	735-2118	
Transparent base with F-bottom	white	0.31	330 µl	50	735-2119	
Transparent base with F-bottom	black	0.31	330 µl	50	735-2120	

#### cellGrade™ premium

This surface is a Poly-D-Lysine equivalent. With the optimised surface characteristics, the most fastidious cell lines can be cultivated. Cells show growth comparable to Poly-D-Lysine surfaces.



TERIL

# **Cell Culture**

#### **Cell Culture - Plates and Dishes**

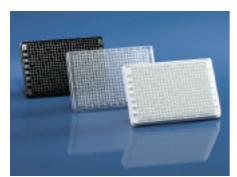
Description	Colour	Culture area (cm²)	Well volume	Pk	Cat. No.	
Standard plate with F-bottom	transparent	0.32	350 µl	50	735-2124	
Standard plate with F-bottom	white	0.32	350 µl	50	735-2125	
Standard plate with F-bottom	black	0.32	350 µl	50	735-2126	
Transparent base with F-bottom	white	0.31	330 µl	50	735-2127	
Transparent base with F-bottom	black	0.31	330 µl	50	735-2128	

#### inertGrade™

Surface inhibits cell binding. Especially suited for the cultivation of cells when adhesion is not desired, for example when working with cell suspensions or stem cells.

Description	Colour	Culture area (cm²)	Well volume	Pk	Cat. No.	
Standard plate with U-bottom	transparent	0.32	330 µl	50	735-2082	
Standard plate with F-bottom	transparent	0.32	350 µl	50	735-2083	
Standard plate with U-bottom	white	0.32	330 µl	50	735-2084	
Standard plate with F-bottom	white	0.32	350 µl	50	735-2085	
Standard plate with C-bottom	white	0.25	350 µl	50	735-2086	
Standard plate with U-bottom	black	0.32	330 µl	50	735-2087	
Standard plate with F-bottom	black	0.32	350 µl	50	735-2088	
Standard plate with C-bottom	black	0.25	350 µl	50	735-2089	
Transparent base with F-bottom	white	0.31	330 µl	50	735-2090	
Transparent base with F-bottom	black	0.31	330 µl	50	735-2091	

# 384-Well HTS Microplates for Cell Culture, BRANDplates®



# PS, solid or with transparent base

These flat bottom plates are available in different colours, and with standard or transparent base formats.

# cellGrade™

The standard surface for cultivation of adherent cell lines. Chemical groups on the surface of the plate bind to serum compounds, stimulating the growth of immobilised cells.

		Well volume	Culture area			
Description	Colour	(µI)	(cm²)	Pk	Cat. No.	
Standard plate with F-bottom	transparent	100	0.12	50	735-2105	
Standard plate with F-bottom	white	100	0.12	50	735-2106	
Standard plate with F-bottom	black	100	0.12	50	735-2107	
Standard plate with F-bottom, low volume	transparent	30	0.07	50	735-2108	
Standard plate with F-bottom, low volume	white	30	0.07	50	735-2109	
Standard plate with F-bottom, low volume	black	30	0.07	50	735-2110	
Transparent base with F-bottom	white	120	0.13	50	735-2111	
Transparent base with F-bottom	black	120	0.13	50	735-2112	

# cellGrade™ plus

This surface has a protein like structure. Cultivation of cells in serum reduced media is possible. cellGrade™ plus surface is suitable for the cultivation of more fastidious cell lines.

		Well volume	Culture area		
Description	Colour	(µl)	(cm²)	Pk	Cat. No.
Standard plate with F-bottom	transparent	100	0.12	50	735-2121
Transparent base with F-bottom	white	120	0.13	50	735-2122
Transparent base with F-bottom	black	120	0.13	50	735-2123

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392.12

#### **Cell Culture**

# Cell Culture - Plates and Dishes

# cellGrade™ premium

This surface is a Poly D Lysine equivalent. With the optimised surface characteristics, the most fastidious cell lines can be cultivated. Cells show growth comparable to Poly D Lysine surfaces.

		Well volume	Culture area		
Description	Colour	(µI)	(cm²)	Pk	Cat. No.
Standard plate with F-bottom	transparent	100	0.12	50	735-2129
Transparent base with F-bottom	white	120	0.13	50	735-2130
Transparent base with F-bottom	black	120	0.13	50	735-2131

#### inertGrade™

Surface inhibits cell binding. Especially suited for the cultivation of cells when adhesion is not desired, for example when working with cell suspensions or stem cells.

		Well volume	Culture area			
Description	Colour	(µI)	(cm²)	Pk	Cat. No.	
Standard plate with F-bottom	transparent	100	0.12	50	735-2092	
Standard plate with F-bottom	white	100	0.12	50	735-2093	
Standard plate with F-bottom	black	100	0.12	50	735-2094	
Transparent base with F-bottom	white	120	0.13	50	735-2095	
Transparent base with F-bottom	black	120	0.13	50	735-2096	

# 1536-Well HTS Microplates for Cell Culture, BRANDplates®

# **Brand**

# PS

Cell culture treated flat bottomed plates.

#### cellGrade™

392.13

The standard surface for cultivation of adherent cell lines. Chemical groups on the surface of the plate bind to serum compounds, stimulating the growth of immobilised cells.

Description	Colour	Well volume (µl)	Culture area (cm²)	Pk	Cat. No.	
Standard plate with F-bottom	transparent	10	0.02	50	735-2113	
Standard plate with F-bottom	white	10	0.02	50	735-2114	
Standard plate with F-bottom	black	10	0.02	50	735-2115	

# Lids for BRANDplates®



Description	Pk	Cat. No.
With condensation rings for standard 96-well plates	100	732-1131
Without condensation rings for 96-well plates	100	732-1132
Without condensation rings for 384-well plates	50	732-1133
Without condensation rings for 1536-well plates	50	732-1134



STERILE

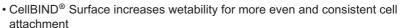
Cell Culture - Plates and Dishes

# 96 Well Cell Culture Plates

# Corning



# PS, clear, with lid



- Ultra-Low Attachment plates feature a covalently bound hydrogel layer that minimises cell attachment, protein absorption and cellular activation
- · Sterilised by gamma irradiation
- · Certified non pyrogenic

Description	Pk	Cat. No.	
Standard plate, flat bottom, CellBIND® surface	50	734-4058	
Standard plate, flat bottom, Ultra-Low Attachment, individually wrapped	24	734-1585	
Standard plate, flat bottom, TC-treated, with low evaporation lid	50	734-1789	
Standard plate, flat bottom, TC-treated, with low evaporation lid, individually wrapped	50	734-1793	
	50	734-1794	•
	100	734-1796	•
Round bottom plate, TC-treated, individually wrapped	50	734-1797	•
Standard plate, flat bottom, TC-treated	50	734-1799	
Round bottom plate, Ultra-Low Attachment, individually wrapped	24	444-1020	

# 96 Well Plates, Untreated

# Corning



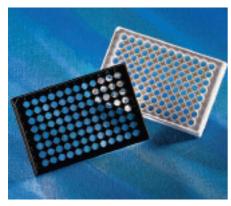
# PP plate with PS lid

- · Sterilised by gamma radiation
- · Certified non pyrogenic



Description	Pk	Cat. No.	
96 Well plate with round bottom, individually wrapped	50	732-5541	

# 96 Well Cell Culture Plates for Fluorescent and Luminescent Applications Corning



#### PS

- Black plates are designed to lower background in fluorescent assays and reduce cross-talk
- White plates are designed for luminescent assays
- Treated for optimal cell attachment
- Sterilised by gamma irradiation
- Certified non pyrogenic

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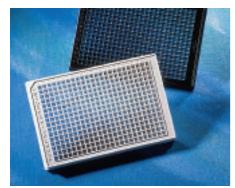
# **Cell Culture**

#### Cell Culture - Plates and Dishes

Description Pk	Cat. No.
Solid white plate, TC treated, without lid 100	734-1549
Black plate with clear bottom, TC treated, individually wrapped 48	734-1609
White plate with clear bottom, TC treated, individually wrapped 48	734-1610
White plate with clear bottom, TC treated 100	734-1660
Black plate with clear bottom, TC treated 100	734-1661
Solid black plate, TC treated 100	734-1664
Solid white plate, TC treated 100	734-1665

# 384 Well Clear Bottom Cell Culture Plates

# Corning



#### PS, flat bottom, with lid

Black plates are designed to lower background in fluorescent assays and reduce cross-talk. White plates are designed for luminescent assays.



- · Sterilised by gamma radiation
- · Certified non pyrogenic



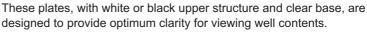
Description	Sterile	Pk	Cat. No.
Standard clear plate, poly-D-lysine coated	+	100	734-1615
White plate with clear bottom, poly-D-lysine coated	+	100	734-1616
Black plate with clear bottom, poly-D-lysine coated	+	100	734-1617
Black optical imaging plate with clear bottom, TC treated	+	100	734-1200

# Optical Bottom Plates, 96-Well, Nunclon™∆

#### Nunc™



# PS plate with either polymer or coverglass base, sterile, with lid





- Flat bottom well geometry for plate reader access
- Footprint compatible with standard equipment and automated systems
- Surface treatment ensures optimal cell attachment and growth
- No. 1.5 coverglass base for minimum light scatter and low autofluorescence ensures accurate results due to higher signal to noise ratios

Working range: 50-200 µl/well

Description	Colour	Pk	Cat. No.	
96-Well optical bottom plate with polymer base ——	black	30	732-2604	•
90-Well optical bottom plate with polymer base ————	white	30	732-2605	•
96-Well optical bottom plate with coverglass base ——	black	30	734-2088	
30-Well optical bottom plate with coverglass base ——	white	30	734-2089	

Cell Culture - Plates and Dishes

# Cell Culture Plates, 384 Well, Nuncion™∆

Nunc™



#### PS, tissue culture-treated, sterile

Ideal for cell culture, cell fusion, cloning and viral titrations.

- Nunclon™∆ surface treatment for optimal cell growth and attachment
- Non-toxic, non-pyrogenic
- · Rounded square wells eliminate wicking
- · Optimised for scintillation counting

Working range: 10-100 µl



Description	Colour	Pk	Cat. No.	
384-Well plate, flat bottom, with lid	transparent	30	734-2091	
384-Well plate, flat bottom, without lid	transparent	100	734-2083	
384-Well plate, flat bottom, with lid	black	30	734-2084	
384-Well plate, flat bottom, without lid	black	100	734-2085	
384-Well plate, flat bottom, with lid	white	30	734-2090	
384-Well plate, flat bottom, without lid	white	100	734-2095	

# **Lids for Microtitre Plates**

Nunc™

Description	Pk	Cat. No.	
Lid for 96-well MicroWell plate, with cut-off corners and condensation rings	100	734-2184	•
Lid for 96-well MicroWell plate, sterile, with cut-off corners and condensation rings	50	734-2185	•
Lid for 384-well MicroWell plate, with cut-off corners and evaporation barrier, individually wrapped	60	732-2732	
Lid for 384-well MicroWell plate, sterile, with cut-off corners and evaporation barrier	180	732-2733	
Low profile lid for standard height 384-well plates and OmniTrays	120	732-2752	
Universal lid, non-sterile, for standard height 384- and 1536-well plates	180	732-2704	

# BD Primaria™ Multiwell Cell Culture Plates

**BD Biosciences** 



# PS, sterile, with lid

The gases used to manufacture BD Primaria<sup>™</sup> contain both oxygen and ammonia, resulting in the incorporation in the surface of a variety of nitrogencontaining functional groups in addition to the negatively charged oxygen-containing groups found on traditional tissue culture treated surfaces. The incorporation of nitrogen-containing cations has been correlated to attachment and spreading of primary endothelial cells in a clonal cell-growth assay. The complex surface on BD Primaria<sup>™</sup> products is homogeneous and stable and is used to improve attachment and differentiation of a variety of cell types. The surface chemistry of BD Primaria<sup>™</sup> products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

- Unique, nitrogen-containing tissue culture surface chemistry improves attachment, spreading and growth for many primary cells or cell lines
- Optically clear and no special storage required
- · Convenient, peel-open, medical-style packaging

Description	Volume (ml)	Growth area (cm²)	Pk	Cat. No.	
BD Primaria™ 6-well cell culture plate	15.5	9.6	50	734-0077	
BD Primaria™ 24-well cell culture plate	3.5	2.0	50	734-0078	
BD Primaria™ 96-well cell culture plate	0.37	0.32	50	734-0079	•

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# **Cell Culture**

**Cell Culture - Plates and Dishes** 

# BD BioCoat™ Collagen I Cell Culture Plates

**BD Biosciences** 



# PS coated with rat tail collagen type I, sterile, non-pyrogenic



Collagen is an integral part of the framework that holds cells and tissues together and has been recognized as a useful matrix for improving cell culture. In vitro use of collagen can exert effects on the adhesion, morphology, growth, migration, and differentiation of a variety of cell types. Applications include promotion of cell attachment and spreading, rapid expansion of cell populations, serum-free or reduced serum culture, studies of the effects of collagen I on cell behavior, improving survival of primary cell lines in culture, and cell adhesion assays.

- Uniform application of rat tail collagen type I for consistent performance
- Manufactured in a highly controlled environment, and rigorously tested to assure product consistency and performance

Description	Colour	Pk	Cat. No.	
0.144   1.14	transparent	5	734-0108	•
6-Well plate	transparent	50	734-0274	
12-Well plate	transparent	50	734-0295	
24-Well plate	transparent	5	734-0115	•
24-Well plate	transparent	50	734-0277	•
48-Well plate	transparent	50	734-0296	
	transparent	5	734-0114	•
	transparent	50	734-0276	•
96-Well plate	black/clear	50	734-0319	
or their plane	white/clear	50	734-0320	
	white	50	734-0303	
	black/clear	50	734-0332	
384-Well plate	white/clear	50	734-0329	
	transparent	50	734-0331	
	white	50	734-0330	

# BD BioCoat™ Poly-L-Lysine and Poly-D-Lysine Cell Culture Plates BD Biosciences



# PS, coated with Poly-L-Lysine or Poly-D-Lysine, sterile, non-pyrogenic



Poly-D-Lysine (PDL) and Poly-L-Lysine (PLL) are synthetic compounds that enhance cell adhesion and protein absorption by altering surface charges on the culture substrate. Poly-L-Lysine and Poly-D-Lysine surface treatments support applications including attachment and spreading of a variety of cell lines; cell differentiation and neurite outgrowth; attachment of transfected cell lines; and survival of primary neurons in culture. As PDL and PLL are synthetic molecules, they do not stimulate biological activity in the cells cultured on them, and they do not introduce impurities carried by natural polymers.

BD BioCoat™ Poly-D-Lysine

Description	Colour	Pk	Cat. No.	
6-Well plate	transparent	5	734-0120	
12-Well plate	transparent	5	734-0151	
24-Well plate	transparent	5	734-0121	
48-Well plate	transparent	5	734-0174	

#### **Cell Culture**

#### Cell Culture - Plates and Dishes

Description	Colour	Pk	Cat. No.	
	transparent	5	734-0146	
	black/clear	5	734-0245	
	black/clear	50	734-0317	•
96-Well plate	white/clear	5	734-0250	
	white/clear	50	734-0321	
	white	5	734-0237	
	white	50	734-0316	
	black/clear	50	734-0328	
384-Well plate	white/clear	50	734-0325	
	transparent	50	734-0327	
	white	50	734-0326	

# **BD BioCoat™ Poly-L-Lysine**

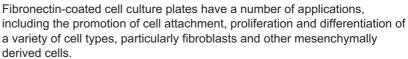
Description	Colour	Pk	Cat. No.	
6-Well plate	transparent	50	734-0299	
96-Well plate	transparent	50	734-0300	

# **BD BioCoat™ Fibronectin Cell Culture Plates**

#### **BD Biosciences**



# PS, coated with fibronectin, sterile, non-pyrogenic



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Description	Colour	Pk	Cat. No.	
6-Well plate	transparent	5	734-0110	
24-Well plate	transparent	5	734-1316	
96-Well plate	transparent	5	734-0116	

# BD BioCoat™ Laminin Cell Culture Plates

# **BD Biosciences**

# PS, coated with mouse laminin, sterile, non-pyrogenic



Laminin, a major structural component of basement membranes, has many varied functions that are mediated by binding to various components of the basement membrane (for example, collagen IV) and to cell-surface receptors. Laminin-coated cell culture plates have a number of applications, including the promotion of cell adhesion, proliferation and differentiation of a variety of cell types, particularly neurons, epithelial cells, myocytes and myoblasts.

Description	Colour	Pk	Cat. No.	
6-Well plate	transparent	5	734-0112	
24-Well plate	transparent	5	734-0118	
96-Well plate	transparent	5	734-0117	

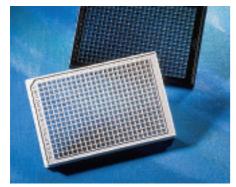
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# **Cell Culture**

Cell Culture - Plates and Dishes

# 96 Well Cell Culture Plates, Poly-D-lysine Coated

# Corning



#### PS, flat bottom, without lid

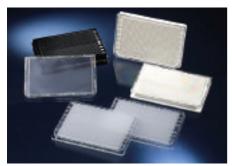
 Enhanced cell attachment and binding, especially in assays for difficult to attach cells STERILE

- · Helps cells stay attached during washing steps
- · Aseptically manufactured
- Black plates are designed for lower background in fluorescent assays and reduce crosstalk; white plates are designed for luminescent assays

Description P	k	Cat. No.	
Standard clear plate, poly-D-lysine coated 10	00	734-1618	
White plate with clear bottom, poly-D-lysine coated	00	734-1619	
Black plate with clear bottom, poly-D-lysine coated 10	00	734-1620	

# Plates, Collagen I Coated

Nunc™



#### PS ready-to-use plates pre-coated with Collagen I, with lid

- Consistent growth surface from each lot ensures guaranteed performance
- High quality surface promotes cell attachment, growth and differentiation in serumfree and serum-containing media
- · Stable at room temperature

WxL: 128x86 mm

Description	Colour	Pk	Cat. No.	
MicroWell plate, F96, high flange design	transparent	20	734-1185	
	black	20	734-1183	
	white	20	734-1187	
6-Well multidish, flat bottom	transparent	20	735-0226	
384-Well optical bottom plate, pinchbar design	black	20	734-1188	

# Plates, Poly-D-Lysine Coated

Nunc™



#### PS ready-to-use plates pre-coated with Poly-D-Lysine, with lid

- Consistent growth surface from each lot ensures guaranteed performance
- High quality surface promotes cell attachment, growth and differentiation in serumfree and serum-containing media
- Stable at room temperature

WxL: 128x86 mm

Description	Colour	Pk	Cat. No.	
MicroWell plate, F96, high flange design	transparent	20	734-1186	
	black	20	734-1184	
	white	20	734-1177	

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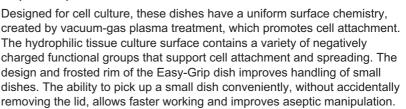
#### Cell Culture - Plates and Dishes

# **BD Falcon™ Cell Culture Dishes**

**BD Biosciences** 



#### PS, sterile, with lid



- Flat and optically clear for distortion-free microscopic visualisation of cells
- · Lids designed for optimal gas exchange
- · Stacking rings allow for easier stacking and handling
- Cell performance tested to ensure consistent results

	Recommended working	Culture area			
Description	volume (ml)	(cm²)	Pk	Cat. No.	
Easy-Grip dishes, 35x10 mm	2.5-3.0	11.78	500	734-0005	•
Centre-Well organ culture dish, 60x15 mm	-	2.89	500	734-0016	•
Easy-Grip dishes, 60x15 mm	6.0-7.0	19.5	500	734-0007	•
Standard dishes, 60x15 mm	6.0-7.0	21.29	500	734-0961	•
Standard dishes, 100x20 mm	16.0-17.5	58.95	200	734-0006	•
Dishes with 20 mm grid moulded in base, 150x25 mm	45.0-50.0	156.36	100	734-0013	•

# **Cell Culture Dishes, Treated**

# Corning





734-1815



734-1727

# **Optically clear PS**

Available with a choice of treated surface. Corning® CellBIND® Surface increases surface wetability for more even and consistent cell attachment. Ultra-Low Attachment dishes feature a covalently bound hydrogel layer that minimises cell attachment, protein absorption and cellular activation.

- · With stacking beads to aid handling
- · Supplied with vents to provide consistent gas exchange
- · Sterilised by gamma radiation
- Certified non pyrogenic

	Recommende			
	d working	Culture area		
Description	volume (ml)	(cm²)	Pk	Cat. No.
Dishes, Ø35x10 mm, CellBIND® surface	1.8-2.7	8	210	734-4055
Dishes, Ø35x10 mm, TC treated surface	1.8-2.7	8	500	734-1698
Dishes, Ø60x15 mm, CellBIND® surface	4.2-6.3	21	126	734-4056
Dishes, Ø60x15 mm, TC treated surface	4.2-6.3	21	500	734-1699
Dishes, Ø60x15 mm, Ultra-Low Attachment surface	4.2-6.3	21	20	734-0884
Dishes, Ø60x15 mm with 2 mm grid, TC treated surface	4.2-6.3	21	500	734-1703
Dishes, Ø100x20 mm, Ultra-Low Attachment surface	11-16.5	55	20	734-0885
Dishes, Ø100x20 mm, CellBIND® surface	11-16.5	55	40	734-4057
Dishes, Ø100x20 mm, TC treated	11-16.5	55	500	734-1815
Dishes, Ø100x20 mm, TC treated, in 6-pack carriers	11-16.5	55	480	734-1705
Dishes, Ø150x25 mm, TC treated	30.4-45.6	148	60	734-1711
Dishes, square, 245x25 mm, TC treated*	100-150	500	16	734-1727

<sup>\*</sup>Interior dimensions 224x224 mm

STERILE

Tel: 0800 22 33 44 (freephone) Fax: 01455 55 85 86 Email: uksales@uk.vwr.com Web: http://uk.vwr.com

# **Cell Culture**

**Cell Culture - Plates and Dishes** 

# **Cell Culture Dishes, Untreated**

# Corning



# **Optically clear PS**

For applications where cell attachment is not desired.

- · With stacking beads to aid handling
- · Supplied with vents to provide consistent gas exchange
- · Sterilised by gamma radiation
- · Certified non pyrogenic



	Recommended working			
Description	volume (ml)	Culture area (cm²)	Pk	Cat. No.
Dishes, Ø35x10 mm	1.8-2.7	9	500	734-1707
Dishes, Ø60x15 mm	4.2-6.3	21	500	734-1708
Dishes, Ø100x20 mm	11-16.5	55	500	734-1709
Dishes, Ø150x25 mm	30.4-45.6	152	60	734-1710
Dishes, square, 224x224 mm	100-150 ml	500	16	734-1728

# BioAssay Dishes, 245 mm Square

# Corning



# PS, with lids

Designed with a stacking bead so that they will stack securely without slipping.



- Compatible with automated colony picking instruments
- Certified non pyrogenic

Description	Pk	Cat. No.	
BioAssay dish, 18 mm deep, untreated	16	734-1731	
BioAssay dish, 12.5 mm low profile, untreated	20	734-1732	

# Cell Culture Dishes, Nunclon™∆

# Nunc™



# PS, (except 734-2113, made of Permanox<sup>™</sup>), sterile, with lid

A large range of dishes, which have been tissue culture-treated (except 734-2109, suitable for suspension cultures, which is not treated).



- Optically clear and uniform surface suitable for microscopy
- 60 mm and 40 mm dishes available with grids for cloning or determination of plating efficiency
- Nunclon™∆ certified (except 734-2109)

#### **Cell Culture**

#### Cell Culture - Plates and Dishes

	Recommended				
Description	working volume (ml)	Growth area (cm²)	Pk	Cat. No.	
35x10 mm, without grid or air vent	3.0	8.8	500	734-2041	•
35x10 mm, without grid, with air vent	3.0	8.8	500	734-2045	•
35x10 mm, with 2x2 mm grid and air vent	3.0	8.8	500	734-2114	
35x10 mm, untreated, without grid, with air vent	3.0	8.8	500	734-2109	
60x15 mm, without grid, with air vent	5.0	20.8	500	734-2113	
60x15 mm, without grid or air vent	5.0	21.5	400	734-2042	•
60x15 mm, without grid, with air vent	5.0	21.5	400	734-2040	•
60x15 mm, with 2x2 mm grid and air vent	5.0	21.5	400	734-2103	
100x15 mm, without grid, with air vent	12.5	56.7	150	734-2043	•
-	12.5	56.7	480	734-2112	•
150x20 mm, without grid, with air vent	35	145	80	734-1403	•
245x245x25 mm, without grid or air vent	135	500	16	734-2096	•

# **BD Primaria™ Cell Culture Dishes**

#### **BD Biosciences**



#### PS, sterile, with lid

The gases used to manufacture BD Primaria<sup>™</sup> contain both oxygen and ammonia, resulting in the incorporation in the surface of a variety of nitrogen-containing functional groups in addition to the negatively charged oxygen containing groups found on traditional tissue culture treated surfaces. The incorporation of nitrogen containing cations has been correlated to attachment and spreading of primary endothelial cells in a clonal cell-growth assay. The complex surface on BD Primaria<sup>™</sup> products is homogeneous and stable and is used to improve attachment and differentiation of a variety of cell types. The surface chemistry of BD Primaria<sup>™</sup> products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

- Unique, nitrogen-containing tissue culture surface chemistry improves attachment, spreading and growth for many primary cells or cell lines
- · Optically clear and no special storage required
- · Convenient, peel open, medical-style packaging

	Recommended				
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.	
BD Primaria™ Easy-Grip dishes, 35x10 mm	2.5-3.0	11.78	200	734-0070	•
BD Primaria™ standard dishes, 60x15 mm	6.0-7.0	21.29	200	734-0071	•
BD Primaria™ standard dishes, 100x20 mm	16.0-17.5	58.95	200	734-0072	•

# **BD BioCoat™ Collagen I Cell Culture Dishes**

# **BD Biosciences**



# PS coated with rat tail collagen type I, sterile, non-pyrogenic

Collagen I, found in most tissues and organs, is most plentiful in dermis, tendon and bone. It is an integral part of the framework that holds cells and tissues together and has been recognized as a useful matrix for improving cell culture. In vitro use of collagen can exert effects on the adherence, morphology, growth, migration and differentiation of a variety of cell types.

- Manufactured in a highly controlled environment and rigorously tested to assure product consistency and performance
- Stable at room temperature when stored in dry conditions

Description	Pk	Cat. No.	
Culture dish, Ø 35 mm	20	734-0141	
Culture dish, \$2.55 min	100	734-0281	
Culture dish, Ø 60 mm	20	734-0109	
Culture dish, & 60 mm	100	734-0275	
Culture dish, Ø 100 mm	10	734-0136	
Culture dion, 5, 100 mm	40	734-0280	•

Tel: 0800 22 33 44 (freephone) Email: uksales@uk.vwr.com
Fax: 01455 55 85 86 Web: http://uk.vwr.com

#### **Cell Culture**

**Cell Culture - Plates and Dishes** 

### **BD BioCoat™ Poly-Lysine Cell Culture Dishes**

**BD Biosciences** 



#### PS, coated with poly-lysine

Poly-D-Lysine (PDL) and Poly-L-Lysine (PLL) are synthetic compounds that enhance cell adhesion and protein absorption by altering surface charges on the culture substrate. Poly-Lysine surface treatments support applications including attachment and spreading of a variety of cell lines; cell differentiation and neurite outgrowth; attachment of transfected cell lines; and survival of primary neurons in culture

BD BioCoat™ Poly-D-Lysine

Description	Pk	Cat. No.	
Culture dishes, 35 mm	100	734-0417	
Culture dishes, 60 mm	100	734-0284	
Culture dishes, 100 mm	40	734-0285	

#### BD BioCoat™ Poly-L-Lysine

Description	Pk	Cat. No.
Culture dishes, 35 mm	100	734-0302
Culture dishes, 60 mm	100	734-0301

### **BD Falcon™ In Vitro Fertilisation Plasticware**

#### **BD Biosciences**



#### Crystal grade PS, sterile, with lid

Pre-tested and certified plasticware for in-vitro fertilisation (IVF), designed for consistency and ease of use. These plates have perfectly flat, optically clear surfaces for optimum manipulation and observation of ova and embryos. Lids are designed for aseptic manipulation and consistent venting to maintain humidification.



100

- Non-embryotoxic, non-pyrogenic and non-cytotoxic
- Tissue culture treated for a consistent hydrophilic surface
- · Sterilised by gamma irradiation
- Packaged in peel-open, medical-style packaging
- Multi-unit bags have reseal tabs

Description	Pk	Cat. No.	
Round dish, Ø 60 mm, volume 23.0 ml	500	734-0068	
1-Well round dish, Ø 60 mm, well volume 2.5 ml	500	734-0398	
4-Well plate, well volume 1.8 ml, individually wrapped	100	734-0069	



Cell Culture - Plates and Dishes

### **Culture Dishes for In Vitro Fertilisation**

Nunc™



#### PS, sterile, flat bottom, with lid

These fully certified dishes are specifically intended for in vitro fertilisation (IVF) use.



- Choice of Nunclon™∆ treated or non-treated surfaces
- Full batch control of all components in the final product giving full
- Unique certification, based on a 1-cell stage mouse embryo toxicity test, confirms sterility (SAL 106), non-pyrogenicity, and that the material has passed USP class VI requirements

ı		MD	
	_		

Description	Pk	Cat. No.	
Nunclon™∆ treated 4-well dish, 66x66 mm, culture area 1.9 cm²/well	120	734-1175	•
Untreated dish, 60x15 mm, culture area 21.5 cm <sup>2</sup>	400	391-0108	•
Untreated dish, 40x12 mm, culture area 8.8 cm²	500	391-0109	

# IVF Culture Dishes, Costar®

#### Corning



#### Optically clear virgin PS

IVF Culture Dishes with 20 mm centre well. Inner well holds 3 ml of medium while the outer well holds 10 ml. For research use only.



- 45° slope funnels oocyte/embryo into centre of well
- Stand-off rim on base protects optical surface from scratching
- · Treated for optimal cell attachment
- · Sterilised by gamma radiation
- · Certified non pyrogenic

Description	Pk	Cat. No.	
IVF culture dishes, 60x15 mm	500	734-1542	

### Chamber Slides, BD Falcon™ CultureSlides for in situ Analysis **BD Biosciences**



#### Soda-lime glass slide; PS vessel, lid and tool

BD Falcon™ CultureSlides allow cells to be cultured and then analysed on a glass microscope slide. Cells are grown in a plastic chamber attached to a specially prepared microscope slide. Cells can be fixed and stained in situ without disruption of the cell monolayer.



- Chamber is easily and safely removed using the disposable safety removal
- Pressure-sensitive, biocompatible, acrylic-adhesive gasket remains with the vessel after removal, not on the slide, facilitating further processing or placement of coverslips
- Blue hydrophobic border defines cell culture areas
- · Wells numbered for easy identification
- Trays designed for incubator use

WxL: Slide 25x75 mm with 1.2 mm bevelled edge

#### **Cell Culture**

#### Cell Culture - Chamber Slides

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
1-Well CultureSlide	5.0-6.5	8.6*	24	734-0086	
1-Well CultureSlide	5.0-6.5	8.6*	96	734-0399	
2-Well CultureSlide	2.0-2.5	4.0*	24	734-0087	•
2-Well CultureSlide	2.0-2.5	4.0*	96	734-0400	
4-Well CultureSlide	1.0-1.5	1.7*	24	734-0088	•
4-Well CultureSlide	1.0-1.5	1.7*	96	734-0401	
8-Well CultureSlide	0.8-0.8	0.7*	24	734-0089	•
8-Well CultureSlide	0.8-0.8	0.7*	96	734-0402	•

<sup>\*</sup> per well

# Chamber Slides, BD BioCoat™ Collagen I CultureSlides BD Biosciences



#### Soda-lime glass slide; PS vessel, lid and tool

Collagen is an integral part of the framework that holds cells and tissues together and has been recognized as a useful matrix for improving cell culture. In vitro use of collagen can exert effects on the adhesion, morphology, growth, migration, and differentiation of a variety of cell types.

BD BioCoat™ Collagen I CultureSlides allow cells to be cultured and then analysed on a glass microscope slide. Cells are grown in a plastic chamber attached to a specially prepared microscope slide. Cells can be fixed and stained in situ without disruption of the cell monolayer.

- Chamber is easily and safely removed using the disposable safety removal tool supplied
- Pressure-sensitive, biocompatible, acrylic-adhesive gasket remains with the vessel after removal, not on the slide, facilitating further processing or placement of coverslips
- · Blue hydrophobic border defines cell culture areas
- Wells numbered for easy identification
- Trays designed for incubator use

Slide WxL: 25x75 mm with 1.2 mm bevelled edge

	Recommended				
	working volume	Growth area			
Description	(ml)	(cm²)	Pk	Cat. No.	
BD BioCoat™ Collagen I CultureSlides, 1-well	5.0-6.5	8.6*	12	734-0205	
BD BioCoat™ Collagen I CultureSlides, 2-well	2.0-2.5	4.0*	12	734-0238	
BD BioCoat™ Collagen I CultureSlides, 4-well	1.0-1.5	1.7*	12	734-0206	
BD BioCoat™ Collagen I CultureSlides, 8-well	0.8-0.8	0.7*	12	734-0241	

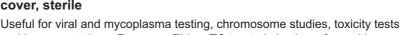
<sup>\*</sup> per well

# Chamber Slides, Lab-Tek™

Nunc™



# PS medium chamber on glass or Permanox™ plastic slide, PS cover, sterile



and immunocytology. Permanox™ is a TC treated plastic surface with minimal fluorescence.



- · No cell transfer needed prior to visualisation/staining
- Upper chamber can be removed when culturing is complete
- Suitable for use with fluorescent labels



TERIL



#### **Cell Culture**

#### Cell Culture - Chamber Slides

	Recommended				
Description	working volume (ml)	Growth area (cm²)	Pk	Cat. No.	
Chamber Slide™, glass, 1-chamber	2.5-4.5	9.4	16	734-2119	•
Chamber Slide™, glass, 2-chamber	1.2-2.0	4.2	16	734-2120	•
Chamber Slide™, glass, 4-chamber	0.5-0.9	1.8	16	734-2121	•
Chamber Slide™, glass, 8-chamber	0.2-0.4	0.8	16	734-2122	•
Chamber Slide™, glass, 16-chamber	0.1-0.2	0.4	16	734-2127	•
Chamber Slide™, Permanox™, 1-chamber	2.5-4.5	9.4	16	734-2123	
Chamber Slide™, Permanox™, 2-chamber	1.2-2.0	4.2	16	734-2124	•
Chamber Slide™, Permanox™, 4-chamber	0.5-0.9	1.8	16	734-2125	•
Chamber Slide™, Permanox™, 8-chamber	0.2-0.4	0.8	16	734-2126	•

### Chamber Slides, Lab-Tek™ II

Nunc™



### PS medium chamber on glass slide, PS lid, sterile



For culturing cells on a standard microscope slide. Useful for viral and mycoplasma testing, chromosome studies, toxic tests and immunocytology.

• Removable medium chamber of 1,2,4 and 8-well configuration, attached to non-fluorescent, glass microscope slide (25x75x1.2 mm) with rounded corners using biocompatible adhesive

- Inert hydrophobic well border printed on slide
- Superfrost<sup>™</sup> printed writing area
- Treated to ensure excellent cell attachment and growth

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
1-Chamber configuration	2.0-4.5	8.6	16	734-2047	•
2-Chamber configuration	1.0-2.0	4.0	16	734-2048	•
4-Chamber configuration	0.5-1.0	1.7	16	734-2049	•
8-Chamber configuration	0.2-0.5	0.7	16	734-2050	•

# Chamber Slides, Lab-Tek™ II CC2™

Nunc™



#### 1.0 Borosilicate coverglass with coated growth surface, PS medium chamber, sterile



These chamber slides have a chemically coated growth surface on the glass slide which mimics polylysine, providing binding sites optimal for fastidious cells such as neurons.



- Growth surface remains stable without refrigeration
- · Light blue frosted writing area for clear identification
- Slide separator (used to lift the medium chamber from the slide) included in each pack

	Recommended working			
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.
1-Chamber configuration	2.0-4.5	8.6	16	734-2051
2-Chamber configuration	1.0-2.0	4.0	16	734-2052
4-Chamber configuration	0.5-1.0	1.7	16	734-2053
8-Chamber configuration	0.2-0.5	0.7	16	734-2054

#### **Cell Culture**

Cell Culture - Chamber Slides

### Chambered Cover Glasses, Lab-Tek™

Nunc™



#### 1.0 Borosilicate coverglass, PS medium chamber, sterile

These chamber slides are designed for confocal image analysis.

- · Optimal for high power inverted microscopic viewing
- · Medium chamber is not removable



WD

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
1-Chamber	2.5-4.5	9.4	16	734-2056	•
2-Chamber	1.2-2.0	4.2	16	734-2058	•
4-Chamber	0.5-0.9	1.8	16	734-2060	•
8-Chamber	0.2-0.4	0.8	16	734-2062	•

### Chambered Cover Glasses, Lab-Tek™ II

Nunc™



#### 1.5 Borosilicate coverglass, PS medium chamber, sterile

For use with 1, 2, 4 and 8-well configuration Lab-Tek™ II Chamber Slides.



- · Excellent for confocal image analysis
- · Optimal for high power inverted microscope viewing
- Chambered coverglass medium chamber is not removable

WD	

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
1-Chamber configuration	2.0-4.5	8.6	16	734-2055	
2-Chamber configuration	1.0-2.0	4.0	16	734-2057	•
4-Chamber configuration	0.5-1.0	1.7	16	734-2059	•
8-Chamber configuration	0.2-0.5	0.7	16	734-2061	•

### Flasks on Slides

Nunc™



#### Glass Flaskette, PS SlideFlask, sterile

For cell culture directly on a microscope slide. Ideal for karyotyping of cells, single cell autoradiography, and single cell immuno-fluorescence.



- · Glass flaskette CE marked
- PS SlideFlask Nunclon™ certified
- SlideFlask is ultrasonically welded to the slide, and individually leak tested

Dimensions: Flaskette 20x52 mm; SlideFlask 18x50 mm

	Recommended working				
Description	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
Flaskette, glass	2.5-5.0	10	16	732-2609	•
SlideFlask, PS	2.5-5.0	9	50	734-2107	•

Cell Culture - Chamber Slides

### Coverslips, Thermanox™

Nunc™



Safe, easy to handle coverslips, 0.2 mm thickness, which remain flat during normal use.

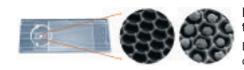
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- · Resistant to commonly used solvents
- Autofluorescent in the range 380 to 545 nm
- Surfaced treatment on one side for optimal cell attachment and growth

Description	Pk	Cat. No.	
Rectangular coverslips, 10.5x22 mm, for 8-well multidish	500	734-2115	
Rectangular coverslips, 22x60 mm, for 4-well multidish	500	734-2116	
Rectangular coverslips, 24x30 mm	500	734-2154	
Round coverslips, Ø 13 mm, for 24-well multidish	500	734-2117	•
Round coverslips, Ø 15 mm	500	734-2172	•
Round coverslips, Ø 22 mm	500	734-2173	
Round coverslips, Ø 25 mm, for 6-well multidish	500	734-2118	

### Microscope Slides, LiveCell Array™

Nunc™



#### Disposable, sterile microscope slides with an embedded, transparent array of picowells



LiveCell Array™ is a slide-based tool for real-time study of individual living cells, adhering and non-adhering, within heterogeneous populations.

- Enables multiple functional assays on living cells followed by post-fixation studies on the same cells
- · Staining, rinsing and perfusion do not displace cells
- · Compatible with standard microscopes
- Image Analysis Software designates and addresses to each cell

LiveCell is a licensed trademark of Molecular Cytomics Inc.

#### LiveCell Array™ Slides, 1 per case

Description	Pk	Cat. No.
Slide with 15 µm well	1	734-2198
Slide with 20 µm well	1	734-2200
Slide with 100 µm well	1	392-0010
Slide with 250 µm well	1	734-2202

#### LiveCell Array™ Slides, 5 per case

Description	Pk	Cat. No.
Slide with 15 µm well	5	734-2199
Slide with 20 µm well	5	392-0008
Slide with 100 µm well	5	392-0009
Slide with 250 um well	5	734-2203

### LiveCell Array™ Apoptosis Kits, 5 slides plus reagents

Description	Pk	Cat. No.	
Slide with 15 µm well	5	734-2204	
Slide with 20 µm well	5	734-2205	
Slide with 100 µm well	5	734-2206	
Slide with 250 µm well	5	734-2207	

#### **Cell Culture**

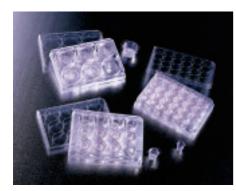
#### Cell Culture - Chamber Slides

### LiveCell Array™ Cell Surface Marker Kits, 5 slides plus reagents

Description	Pk	Cat. No.	
Slide with 15 µm well	5	734-2208	
Slide with 20 µm well	5	734-2209	
Slide with 100 µm well	5	734-2210	
Slide with 250 µm well	5	734-2211	

### **BD Falcon™ Cell Culture Inserts**

#### **BD Biosciences**



#### PET membranes in PET housing, sterile

BD Falcon™ Cell Culture Inserts are track-etched, low-protein binding, PET membranes with a smooth surface and defined cylindrical pores that transverse the membrane. Available in a wide range of configurations (6-, 12- and 24-well) and a broad selection of pore sizes (0.4, 1.0, 3.0 and 8.0 µm). Larger pore-size membranes are most suitable for investigating chemotaxis, invasion and migration; transparent membranes for visualisation of cells by light microscopy; and high pore-density membranes for maximum diffusion when studying transport, secretion or drug uptake.

- Non-tissue culture treated insert housing prevents growth of cells on the inert walls
- · Hanging design facilitates pipetting and allows for co-culture
- Suitable for use with BD Falcon™ Cell Culture Insert Companion Plates
- · Supplied in individual blister packs

#### Transparent PET membrane, 0.4 µm pore size, 1.6x106 pores/cm2

Description	Pk	Cat. No.	
Inserts for 6-well plates	48	734-0032	•
Inserts for 12-well plates	48	734-0051	•
Inserts for 24-well plates	48	734-0036	•

#### High density, translucent PET membrane, 0.4 µm pore size, 1.0x108 pores/cm2

Description	Pk	Cat. No.	
Inserts for 6-well plates	48	734-0061	
Inserts for 12-well plates	48	734-0062	
Inserts for 24-well plates	48	734-0063	•

#### Transparent PET membrane, 1.0 µm pore size, 1.6x10<sup>6</sup> pores/cm<sup>2</sup>

Description F	k	Cat. No.	
Inserts for 6-well plates 4	18	734-0040	•
Inserts for 12-well plates 4	18	734-0041	
Inserts for 24-well plates 4	18	734-0042	

#### Transparent PET membrane, 3.0 µm pore size, 8.0x10<sup>5</sup> pores/cm<sup>2</sup>

Description	Pk	Cat. No.	
Inserts for 6-well plates	48	734-0033	
Inserts for 12-well plates	48	734-0052	
Inserts for 24-well plates	48	734-0037	•

#### High density, translucent PET membrane, 3.0 µm pore size, 2.0x106 pores/cm²

Description	Pk	Cat. No.	
Inserts for 6-well plates	48	734-0034	
Inserts for 12-well plates	48	734-0060	
Inserts for 24-well plates	48	734-0397	

#### Transparent PET membrane, 8.0 µm pore size, 1x10⁵ pores/cm²

Description	Pk	Cat. No.	
Inserts for 6-well plates	48	734-0035	
Inserts for 12-well plates	48	734-0053	•
Inserts for 24-well plates	48	734-0038	•

STERILE

Cell Culture - Inserts

# BD BioCoat™ Collagen I and Collagen IV Cell Culture Inserts

**BD Biosciences** 

#### BD Falcon™ Cell Culture Inserts coated with collagen

Cell culture on permeable membranes permits diffusion of media components to both apical and basolateral cell surfaces similar to the in vivo process. Membranes with extracellular matrix (ECM) further improve in vitro cell culture systems by providing cells with a vital component of their microenvironment in vivo. Typical applications for BD BioCoat™ Cell Culture Inserts include promotion of epithelial cell polarity; differentiation of a variety of cell types; transport and permeability studies; transendothelial migration, tumour cell invasion assays, in vitro toxicology; and co-culture studies.

**Delivery Information:** Supplied packaged ready-to-use in BD Falcon™ Companion Cell Culture Plates. Pack quantity refers to the total number of cell culture inserts supplied.

For further details about the full range of BD BioCoat™ Cell Culture Inserts please contact your local VWR representative.

#### BD BioCoat™ collagen I cell culture inserts

Description	Pk	Cat. No.	
Four 6-well plates, 0.4 µm	24	734-0131	
Four 6-well plates, 1.0 µm	24	734-0222	
Four 6-well plates, 3.0 µm	24	734-0195	

#### BD BioCoat™ collagen IV cell culture inserts

Description	Pk	Cat. No.	
Two 24-well plates, 1.0 µm	24	734-0227	

### **BD Falcon™ Cell Culture Insert Companion Plates**

**BD Biosciences** 

### PS, tissue culture-treated, sterile, non-pyrogenic, with lid

Specifically designed for use with BD Falcon™ or BD BioCoat™ Cell Culture Inserts, so that evaporation and contamination due to improper lid fit is eliminated.

In the "Feeding Position" pipette access is improved for fluid handling on the basolateral side. In the "Incubation Position" cell culture inserts remain locked in position in their companion plate wells.

- · Reagents can be added quickly and consistently for timed experiments
- · Aspiration from the well is easier, reducing the risk of contamination
- Media cannot wick up between the insert and the well wall
- Low-evaporation lid reduces evaporation and contamination

Note: May be used with or without cell culture inserts

Description	Pk	Cat. No.	
6-Well companion plate (deep well)	4	734-1095	
6-Well companion plate	50	734-0065	•
12-Well companion plate	50	734-0066	
24-Well companion plate	50	734-0067	•

# **BD BioCoat™ MatrigeI™ Invasion Chambers**

**BD Biosciences** 

#### An in vitro system for assessing the invasive potential of both malignant and normal cells

BD BioCoat™ Matrigel™ Invasion Chambers enable studies of metastatic potential of tumour cells; expression of matrix metalloproteinase on the surface of invasive tumour cells; inhibition of metastasis by ECM components or antineoplastic drugs (i.e. Taxol®); altered expression of cell surface proteins in metastatic cells; and invasion of normal cells, such as embryonic stem cells, cytotrophoblasts, and fibroblasts as well as of multiple cell lines.

The BD BioCoat™ Matrigel™ Invasion Chamber is an in vitro system for the study of cell invasion through the basement membrane. It consists of BD Falcon™ Cell Culture Inserts containing an 8.0 µm pore-size PET membrane coated with a uniform layer of BD Matrigel™ Matrix.

The BD BioCoat™ Tumour Invasion System is an in vitro system for the study of tumour cell invasion through the basement membrane. It consists of BD Falcon™ FluoroBlok Multiwell Insert Plates containing an 8.0 µm pore size FluoroBlok membrane coated with a uniform layer of BD Matrigel™ Basement Membrane Matrix. The BD Matrigel™ Matrix occludes the pores of the FluoroBlok membrane, blocking non-invasive cells from migrating through the membrane.



### **Cell Culture**

#### Cell Culture - Inserts

- Proven biological performance using BD FluoroBlok PET membrane coated with BD Matrigel™ Matrix
- · Allows for rapid and reproducible quantitation of tumour cell invasion in vitro
- Increase throughput for tumour cell invasion assays
- · Allows automation of assays with simplified and non-destructive fluorescence detection
- · Saves time and labour screening for prospective anti-metastatic compounds

	Tested for the ability to allow invasion of HT-1080 cells, an invasive human fibrosarcoma cell line, and to
Quality control	exclude invasion of 3T3 cells, a non-invasive mouse fibroblast cell line
	Tested and found negative for bacteria and fungi
Storage and stability	Store at -20 °C in original packaging. Stable for at least 3 months at -20 °C

#### BD BioCoat™ MatrigeI™ Invasion Chambers

Description	Pk	Cat. No.	
8.0 µm Inserts in four 6-well plates	24	734-1048	
8.0 µm Inserts in two 24-well plates	24	734-1047	

### BD BioCoat™ Growth Factor Reduced (GFR) MatrigeI™ Invasion Chambers

Description	Pk	Cat. No.	
8.0 µm Inserts in two 24-well plates	24	734-1049	

#### BD BioCoat™ 24-Multiwell Tumour Invasion System

Description	Pk	Cat. No.
8.0 µm Multiwell insert plate in one 24-well plate	1	734-1024
8.0 µm Multiwell insert plate in five 24-well plates	5	734-1025

#### BD BioCoat™ 96-Multiwell Tumour Invasion System

Description	Pk	Cat. No.	
8.0 µm Multiwell insert plate in one 96-well plate	1	392-2500	
8.0 µm Multiwell insert plate in five 96-well plates	5	392-2501	

### BD BioCoat™ Angiogenesis System

#### **BD Biosciences**

Angiogenesis is the development of new blood vessels from pre-existing ones. This process is essential for normal growth and homeostasis. However, angiogenesis becomes altered during certain disease states, which results in excessive or insufficient blood vessel formation. Diseases such as cancer, diabetic retinopathy and rheumatoid arthritis are characterised by excessive angiogenesis.

The BD BioCoat™ Angiogenesis Systems facilitate investigation of compound effects on endothelial cell invasion, migration, and tubulogenesis. The availability of these standardised assays has facilitated a better understanding of the molecular mechanism of angiogenesis and simplified the routine use of cell-based assays for screening of anti- and pro-angiogenic compounds.

BD™ Human Umbilical Vein Endothelial Cells (HUVEC-2) are derived from single donors and cryopreserved at passage number 2. HUVEC-2 cells have been pre-qualified to assure a robust migratory response to angiogenic factors such as VEGF and FBS. Single donor primary HUVEC-2 cells are suitable for use in combination with BD BioCoat™ Angiogenesis Assay Systems to provide relevant models for angiogenesis (e.g., cardiovascular, vascular, and wound healing) and cancer research. BD™ Human Umbilical Vein Endothelial Cells have been qualified for use in BD BioCoat™ Angiogenesis Endothelial Cell Migration assays and may be used in BD BioCoat™ Endothelial Cell Invasion and Tube Formation assays.

- · Address key steps in the angiogenesis process using standardised cell-based assays
- Increase throughput with screening-compatible formats and data acquisition options
- · Obtain human umbilical vein endothelial cells pre-qualified for use in the endothelial cell migration assay

www.vwr.com

#### **Cell Culture**

#### Cell Culture - Inserts

	All BD BioCoat™ Angiogenesis Systems are tested for the ability to support HUVEC tubule formation,
	determined by tubule length, and measured by automated image analysis. All lots of this product are tested and
	found negative for bacteria and fungi.
Quality control	HUVEC-2 cells are tested for migratory performance at a minimum of eight population doublings; positive
	immunohistochemical staining for von Willebrand factor and CD31 antigen; negative immunohistochemical
	staining to a-actin; positive Dil-Ac-LDL uptake; and negative mycoplasma, HIV-1, hepatitis B and C, bacteria,
	yeast and fungi
	BD BioCoat™ Angiogenesis Systems are stable for at least three months from the date of shipping when stored
Storage and stability at -20 °C.	
	HUVEC-2 cells should be stored in liquid nitrogen

#### BD BioCoat™ Angiogenesis System: Endothelial Cell Invasion

For evaluation of endothelial cell invasion using real-time fluorescence detection in a simplified and reproducible manner.

Description	Pk	Cat. No.	
One 24-Multiwell insert plate	1	734-1018	
Five 24-Multiwell insert plates	5	734-1019	

#### BD BioCoat™ Angiogenesis System: Endothelial Cell Migration

A quantitative and reproducible in vitro model system for examining the effects of prospective compounds on endothelial cell migration.

Description	Pk	Cat. No.	
One 24-Multiwell insert plate	1	734-1020	
Five 24-Multiwell insert plates	5	734-1021	
One 96-Multiwell insert plate	1	734-1118	
Five 96-Multiwell insert plates	5	392-2504	

#### BD BioCoat™ Angiogenesis System: Endothelial Cell Tube Formation

An optimised system for screening compounds that modulate endothelial cell tubulogenesis, which saves time and improves reproducibility.

Description	Pk	Cat. No.	
One 96-well black/clear bottom Optilux™ microplate	1	734-1022	
Five 96-well black/clear bottom Optilux™ microplates	5	734-1023	

#### BD™ Human Umbilical Vein Endothelial Cells

Pre-qualified primary endothelial cells ensure assay performance and data reproducibility.

Description	Pk	Cat. No.	
HUVEC-2, >5x10 <sup>5</sup> cells	1	734-1120	

### **Cell Culture Inserts**

#### Nunc™



For cultivation of most cell types, without matrix coating. Membranes are thermally welded to the polystyrene upper structure. Inserts with 0.02 μm Anopore<sup>TM</sup> membrane have maximum clarity for microscopy, are non-autofluorescent and highly porous. Polycarbonate membranes in larger pore sizes are adaptable to many uses in cell culture including transport studies, toxicity tests, chemotaxis studies and electron microscopy. Both membrane types are transparent when wet and are suitable for phase contrast and Normanski Optic Systems.

- Treated and quality controlled for cell culture
- · Excellent cell attachment and growth
- Non-toxic and resistant to most solvents
- · Low non-specific binding
- Polycarbonate membrane inserts also available pre packed in multidishes

Anapore™ is a trademark of Whatman Scientific



#### **Cell Culture**

#### **Cell Culture - Inserts**

#### Polycarbonate membrane, 0.4 µm pore size, 1.5x10<sup>8</sup> pores/cm<sup>2</sup>

	Recommended				
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.	
Inserts for 6-well multidishes, Ø 25 mm	1.75	4.2	48	734-2016	•
Inserts pre-packed in 6-well multidishes, 20x25 mm	1.5	3.14	24	734-2240	
Inserts pre-packed in 12-well multidishes, 12x18 mm	1.1	1.13	48	734-2232	
Inserts pre-packed in 24-well multidishes, 8x13 mm	0.5	0.47	48	734-2239	
Inserts pre-packed in 6-well multidishes, 23x34 mm	1.75	4.1	24	734-2235	
Inserts for 24-well multidishes, Ø 10 mm	0.5	0.5	48	734-2015	•

#### Polycarbonate membrane, 3.0 µm pore size, 3x10<sup>6</sup> pores/cm<sup>2</sup>

	Recommended			
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.
Inserts for 6-well multidishes, Ø 25 mm	1.75	4.2	48	734-2020
Inserts pre-packed in 6-well multidishes, 23x34 mm	1.75	4.1	24	734-2236
Inserts for 24-well multidishes, Ø 10 mm	0.5	0.5	48	734-2019
Inserts pre-packed in 6-well multidishes, 20x25 mm	1.5	3.14	24	734-2230
Inserts pre-packed in 12-well multidishes, 12x18 mm	1.1	1.13	48	734-2233
Inserts pre-packed in 24-well multidishes, 8x13 mm	0.5	0.47	48	734-2228

#### Polycarbonate membrane, 8.0 µm pore size, 10<sup>5</sup> pores/cm<sup>2</sup>

	Recommended				
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.	
Inserts for 6-well multidishes, Ø 25 mm	1.75	4.2	48	734-2022	
Inserts pre-packed in 6-well multidishes, 23x34 mm	1.75	4.1	24	734-2237	
Inserts for 24-well multidishes, Ø 10 mm	0.5	0.5	48	734-2021	•
Inserts pre-packed in 6-well multidishes, 20x25 mm	1.5	3.14	24	734-2231	
Inserts pre-packed in 12-well multidishes, 12x18 mm	1.1	1.13	48	734-2234	
Inserts pre-packed in 24-well multidishes, 8x13 mm	0.5	0.47	48	734-2229	

#### Anopore™ membrane, 0.02 µm pore size, 10<sup>11</sup> pores/cm<sup>2</sup>

Recommended					
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.	
Inserts for 6-well multidishes, Ø 25 mm	1.75	4.2	48	734-2169	
Inserts for 24-well multidishes, Ø 10 mm	0.5	0.5	48	734-2077	

#### Anopore™ membrane, 0.2 µm pore size, 109 pores/cm²

	Recommended				
Description	working volume (ml)	Culture area (cm²)	Pk	Cat. No.	
Inserts for 6-well multidishes, Ø 25 mm	1.75	4.2	48	734-2014	•
Inserts for 24-well multidishes, Ø 10 mm	0.5	0.5	48	734-2013	•
Inserts for 8-well strip of MicroWell plate	0.06	0.08	15	732-2600	•

All Nunc Cell Culture Inserts: Recommended working volume, ml = in addition to normal well working volume





Cell Culture - Bottles and Tubes

### **Drosophila Stock Bottles**





#### PP round or square bottom or PE square bottom bottles

- · Thin wall design for excellent visibility
- · Pliable top for easy removal of paper lid
- · Moulded-in food level graduation marks

Bottle 734-1259 features a wider edge for a more secure paper cap fit. Bottle 734-1250 has a moulded indent near the bottom, which helps to secure media.

PP bottles are autoclavable, PE bottles are not.

	Capacity			
Description	(ml)	Pk	Cat. No.	
PP square bottom	170	500	734-1260	•
PE square bottom	170	500	734-1261	
PP square bottom with wider edge	170	500	734-1259	
PP round bottom	170	500	734-1249	•
PP round bottom with moulded indent	225	250	734-1250	

### **Drosophila Vials**





Available in three materials and two packaging formats. Ideal for growing drosophila or other insects. Straight wall shell design allows for easy racking, filling and plugging.

- PP vials are virtually unbreakable, economically priced and are autoclavable
- PS vials are clear, and provide a safe and economical alternative to glass vials
- K-Resin co-polymer vials offer glasslike clarity, are scratch resistant and are ideal for microscopic examination; they are more flexible than PS vials, which makes them excellent for freezing and shipping specimens

PS and K-Resin vials are not autoclavable.

Sizes: Narrow 25 x 95 mm; wide 28.5 x 95 mm; short 24 x 75 mm

#### **Bulk packed vials**

Bulk packed vials are layered and are open-end orientated for convenient handling.

Description	Pk	Cat. No.	
PP vials, narrow	500	734-1244	
PP vials, wide	500	734-1252	•
PS vials, narrow	500	734-1254	•
PS vials, wide	500	734-1255	•
PS vials, narrow, short	500	734-1257	•
K-Resin vials, narrow	500	734-1246	
K-Resin vials, wide	500	734-1248	

#### Tray packed vials

Shrink-wrapped in a 10x10 row configuration with dividers between vials.

Description	Pk	Cat. No.	
PP vials, narrow	500	734-1253	•
PP vials, wide	500	734-1251	•
PS vials, narrow	500	734-1243	
PS vials, wide	500	734-1256	
PS vials, narrow, short	500	734-1258	
K-Resin vials, narrow	500	734-1245	
K-Resin vials, wide	500	734-1247	

### Vial and dividers

Cardboard trays with cell dividers; 254x254 mm row configuration for narrow or wide diameter shell vials.



#### **Cell Culture**

#### Cell Culture - Bottles and Tubes

Description	Pk	Cat. No.
Trays and dividers for narrow vials	50	734-1237
Trays and dividers for wide vials	50	734-1240
Dividers only for narrow vials	50	734-1238
Trays only for narrow vials	50	734-1239
Dividers only for wide vials	50	734-1241
Trays only for wide vials	50	734-1242

# **BD Falcon™ Sterile Containers**

#### **BD Biosciences**



#### PP, sterile, with PE lid

Convenient, single-use containers for collection, transport and storage of a wide variety of specimens.

- · Moulded-in graduations for easy measurement
- Inert and chemically resistant to commonly used laboratory reagents at room temperature

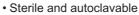
Description	Pk	Cat. No.	
Sterile container, 110 ml, with lid	100	391-0020	•
Sterile container, 220 ml, with lid	100	391-0023	•

### **Erlenmeyer Flasks**



### PC, clear, narrow mouth

Ideal for shaker and suspension cell culture applications.



- Safe and shatterproof
- · Chemically inert

Flasks are available with baffled or flat bottoms. Each flask supplied with two caps (one standard seal, one vented). Replacement caps are also available.

Packaging: Individually packed.

Version	Capacity (ml)	Pk	Cat. No.	
	125	24	215-2214	•
Baffled	250	12	215-2216	•
	500	12	215-2218	•
	125	24	215-2220	•
Flat	250	12	215-2222	•
	500	12	215-2224	•

#### Replacement screwcaps, blue, PP size 38-430

Description	Pk	Cat. No.	
Standard cap, blue	48	215-2227	
	96	215-2207	•
Septum cap, blue	96	215-2212	
Vented and with DTFF manufacture at a vila	72	215-2225	•
Vented cap with PTFE membrane, sterile	48	215-2226	



/WR

#### Cell Culture - Bottles and Tubes

# Erlenmeyer Flasks Corning



#### **Optically clear PC**

Corning® baffled and plain Erlenmeyer flasks are ideal for shaker culture applications and storage.

- Baffled or plain bottom options in all sizes (125 ml to 3 L)
- Moulded-in graduations for accuracy
- Vent cap option for continuous gas exchange while ensuring sterility and preventing leakage
- Individually packaged and radiation sterilised for ease of use
- · Certified non pyrogenic

#### **Baffled bottom Erlenmeyer Flasks**

Туре	Capacity (ml)	Neck	Сар	Pk	Cat. No.
Erlenmeyer flask, baffled	125	Ø 26 mm	plug-seal	50	734-4200
Erlenmeyer flask, baffled	125	Ø 26 mm	vented	50	734-4201
Erlenmeyer flask, baffled	250	Ø 31 mm	plug-seal	50	734-4202
Erlenmeyer flask, baffled	250	Ø 31 mm	vented	50	734-4203
Erlenmeyer flask, baffled	500	Ø 43 mm	plug-seal	25	734-4204
Erlenmeyer flask, baffled	500	Ø 43 mm	vented	25	734-4197
Erlenmeyer flask, baffled	1 L	Ø 43 mm	plug-seal	25	734-4198
Erlenmeyer flask, baffled	1 L	Ø 43 mm	vented	25	734-4199
Erlenmeyer flask, baffled	2 L	Ø 48 mm	vented	6	734-1905
Erlenmeyer flask (Fernbach design), baffled	3 L	Ø 70 mm	vented	4	734-1903

#### Plain bottom Erlenmeyer Flasks

Туре	Capacity (ml)	Neck	Сар	Pk	Cat. No.	
Erlenmeyer flask	125	Ø 26 mm	plug-seal	50	734-1832	•
Erlenmeyer flask	125	Ø 26 mm	vented	50	734-1885	•
Erlenmeyer flask	250	Ø 31 mm	plug-seal	50	734-1820	•
Erlenmeyer flask	250	Ø 31 mm	vented	50	734-1886	•
Erlenmeyer flask	500	Ø 43 mm	plug-seal	25	734-1833	•
Erlenmeyer flask	500	Ø 43 mm	vented	25	734-1887	•
Erlenmeyer flask	1 L	Ø 43 mm	plug-seal	25	734-1888	•
Erlenmeyer flask	1 L	Ø 43 mm	vented	25	734-1889	
Erlenmeyer flask	2 L	Ø 48 mm	vented	6	734-1904	•
Erlenmeyer flask (Fernbach design)	3 L	Ø 70 mm	vented	4	734-1902	

#### **Aseptic Transfer Caps**

Transfer caps with two ports. One port ends in a 0.2 µm Acro 50 mm disc and the other port is C-Flex Tubing ending in either a male luer lock or a male polycarbonate quick connect.

- Diptube reaches all the way to the bottom of the flask for easy aseptic transfer of liquid
- Suitable for 1L, 2L and 3L plastic Erlenmeyer flasks

Description	Pk	Cat. No.
43 mm aseptic transfer cap for 1 L flask, 1/8" diptube, 0.2 μm vent, male luer lock	5	734-4209
43 mm aseptic transfer cap for 1 L flask, 1/4" diptube, 0.2 μm vent, male PC connector	5	734-4210
48 mm aseptic transfer cap for 2 L flask, 1/8" diptube, 0.2 μm vent, male luer lock	6	734-4211
48 mm aseptic transfer cap for 2 L flask, 1/4" diptube, 0.2 μm vent, male PC connector	6	734-4212
70 mm aseptic transfer cap for 3 L flask, 1/8" diptube, 0.2 µm vent, male luer lock	4	734-4213
70 mm aseptic transfer cap for 3 L flask, 1/4" diptube, 0.2 µm vent, male PC connector	4	734-4214

#### **Replacement Caps**

PP



#### **Cell Culture**

#### Cell Culture - Bottles and Tubes

Replacement caps for Corning® 2L and 3L Erlenmeyer flasks are available separately. They are supplied sterile and individually packaged.

Description	Pk	Cat. No.	
Vent cap, 48 mm, for 2L flask	24	734-1215	
Vent cap, 70 mm, for 3L flask	24	734-1216	
Flat cap, 48 mm, for 2L flask	24	734-4194	
Flat cap, 70 mm, for 3L flask	24	734-4195	

### **Media Bottles with Cap**





#### PC, autoclavable, narrow mouth bottles with standard PP caps

VWR Collection Media Bottles are an ideal replacement for all borosilicate glass bottles. They are specifically designed for every laboratory application requiring terminal sterilisation (autoclaving), storage, transportation, and production of laboratory biological fluids. The bottles are available in square and round shapes to accommodate various packaging needs.

W

The closure system is guaranteed leak-proof and the seal ring allows for convenient shrink-wrapping of the caps. Each bottle is carefully produced and quality controlled for uniform wall thickness, clarity, graduation, and leak-proof closure.

Optional septum cap or vented cap with PTFE membrane is also available.

- · Ideal for terminal sterilisation
- · Safe and shatterproof
- · Chemically inert

Description	Thread	Pk	Cat. No.	
Clear, square, 1000 ml	38-430	12	215-2206	•
Clear, square, 500 ml	38-430	12	215-2205	•
Clear, square, 125 ml	38-430	24	215-2203	•
Clear, round, 1000 ml	38-430	12	215-2211	•
Clear, round, 500 ml	38-430	12	215-2210	•
Clear, round, 125 ml	38-430	24	215-2204	•
Amber, square, 1000 ml	38-430	12	215-2202	•
Amber, square, 500 ml	38-430	12	215-2201	•
Amber, square, 125 ml	38-430	24	215-2200	•
Amber, round, 1000 ml	38-430	12	215-2209	•
Amber, round, 500 ml	38-430	12	215-2208	•

#### Caps, PP

Description	Thread	Pk	Cat. No.	
Standard cap, blue	38-430	48	215-2227	
Standard cap, blue	38-430	96	215-2207	•
Septum cap, blue	38-430	96	215-2212	
Vented cap with PTFE membrane, sterile	38-430	72	215-2225	•
Vented cap with PTFE membrane, sterile	38-430	48	215-2226	

## Media Bottles, Square, Sterile

#### Nalgene

392.37



#### PETG bottle with HDPE screw closure

An inexpensive alternative to glass bottles for storage and transport of media, these heavy-walled, square, media bottles are transparent and graduated.



- · Leak-proof, break-resistant and durable
- · Reduced permeability to carbon dioxide and oxygen
- Bottles and closures are radiation sterilised and non-pyrogenic to eliminate costly washing, depyrogenation and autoclaving steps
- Heat-shrink band around closure and neck provides tamper-evident seal
- 2L size has moulded in hand grips and a 53 mm white closure

#### **Cell Culture**

#### **Cell Culture - Bottles and Tubes**

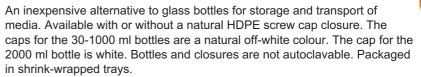
Capacity (ml)	Cap size	Pk	Cat. No.	
30	20 mm	96	215-6700	•
60	24 mm	96	391-7122	•
125	38-430	48	391-7123	•
250	38-430	48	391-7124	•
500	38-430	24	391-7125	•
1000	38-430	24	391-7126	•
2000	53B	12	391-7127	•

# **Culture Media Bottles, Square, Sterile**

#### **Nalgene**



#### **PETG**



- Leak-proof, break-resistant and durable
- Transparency and reduced permeability to carbon dioxide and oxygen allow media storage up to 6 months
- Bottles and closures are radiation sterilised and non-pyrogenic

Description	Capacity (ml)	WxDxH (mm)	Neck I-Ø (mm)	Pk	Cat. No.
	30	38x38x64	14	280	216-0306
	60	41x41x83	18	200	216-0307
	125	54x54x110	28	96	216-0308
Bottles with screw caps	250	61x61x146	28	60	216-0309
	500	74x74x177	28	40	216-0310
	1000	94x94x220	28	24	216-0311
	2000	116x116x171	39	12	216-0312
	30	38x38x64	14	280	216-0379
	60	41x41x83	18	200	216-0380
	125	54x54x110	28	96	216-0381
Bottles without screw caps	250	61x61x146	28	60	216-0382
	500	74x74x177	28	40	216-0383
	650	82x82x180	28	24	216-0384
	1000	94x94x220	28	48	216-0385

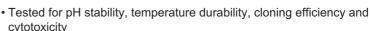
# Media Bottles, Square, Sterile

#### Wheaton



#### PET bottle with white PE cap

These bottles offer the clarity of glass, the strength of plastic and a space saving design.



- · No-drip pour lip allows cleaner, faster and easier pouring
- Permanent in-mould graduations provide volume determination at a glance
- Lightweight for more economical shipping and handling
- 20% headspace for additives

**Delivery Information:** Supplied with caps pre-attached, sterile and shrink-wrapped.

Capacity (ml)	Dimensions (mm)	Pk	Cat. No.	
125	53x53x99	48	215-8320	•
500	75x75x175	24	215-8321	•

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STERIL

#### **Cell Culture**

Cell Culture - Bottles and Tubes

# Storage Bottles, Corning<sup>®</sup> Easy Grip Style Corning



#### PS

Disposable polystyrene bottles for storage of media, buffers and other aqueous solutions

- · Low profile, easy grip style has sides that facilitate handling
- Plug seal caps (45 mm) provide an airtight seal and help minimise the risk of contamination
- Bottles can be used with Corning® Vacuum Filter Systems
- · Sterile, certified non pyrogenic

Description	Capacity (ml)	Cap size (mm)	Pk	Cat. No.	
Corning® Easy Grip storage bottles	150	45	24	734-1897	
Corning® Easy Grip storage bottles	250	45	24	734-1824	
Corning® Easy Grip storage bottles	500	45	24	734-1825	
Corning <sup>®</sup> Easy Grip storage bottles	1000	45	24	734-1847	

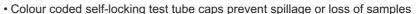
### Caps for Test Tubes, Safe-T-Flex



TERM

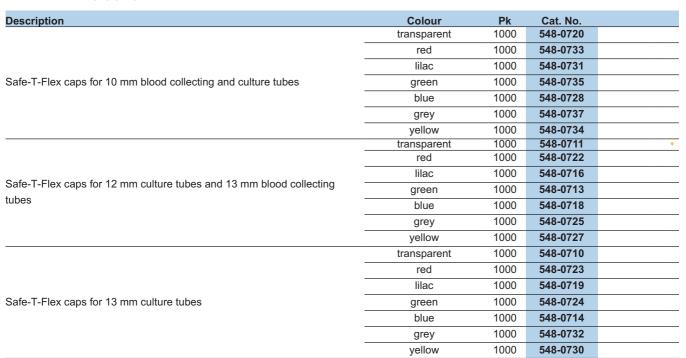


Safe-T-Flex caps feature a unique, flexible, over-locking design, locking securely on the outside of the tube lip and removable by one hand. A tight seal ensures sample integrity and prevents spillage or evaporation of serum samples. This special seal protects against the aerosols of highly infectious organisms such as TB and the HTLV-III virus. They are colour-coded for easy specimen identification and to help guard against cross-contamination. The top of each cap can also be numbered or labelled with indelible ink. Self-locking cap holds firmly in any position and keeps contents secure while in transit. Liquid-tight seal withstands centrifugation, agitation, refrigeration, and freezing.



• Fit all varieties of blood collecting and disposable culture tubes

Ordering Information: caps are packaged in bags of 1000.



#### **Cell Culture**

#### Cell Culture - Bottles and Tubes

Description	Colour	Pk	Cat. No.	
	transparent	1000	548-0712	•
	red	1000	548-0717	
	lilac	1000	548-0715	
Safe-T-Flex caps for 16 mm blood collecting and culture tubes	green	1000	548-0729	
	blue	1000	548-0721	
	grey	1000	548-0736	
	yellow	1000	548-0726	•

#### **Culture Tubes**

### Corning



#### Optically clear PS

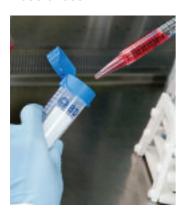
Culture tubes with threaded plug seal caps.

- TC treated tubes supplied racked
- · Untreated tubes provided bulk packed
- · Sterilised by gamma radiation
- · Certified non pyrogenic

Chem_Prod_Description	Pk	Cat. No.	
Culture tubes, 16x125 mm, untreated	500	734-1697	
Culture tubes, 16x125 mm, TC treated	500	734-1701	

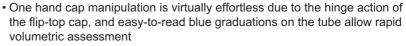
# **BD Falcon™ Conical Tubes with Flip-Top Cap**

#### **BD Biosciences**



#### PP, sterile, non-pyrogenic

The BD Falcon™ Conical Tube with Flip-Top Cap is ideal for any research application requiring one-handed operations to open and close the cap. The flip-top design saves time and effort in applications requiring multiple aliquoting, storage and pouring from the same tube, whilst maintaining the same high quality and performance of standard screw cap closures.



- Splash guard design of the cap allows opening and closing without risk of splatter
- · Click bead ensures a tight and secure seal
- Ambidextrous, with thumb grips on each side of the cap to ensure a sterile opening technique
- Can be centrifuged up to 9400 g

Description	Pk	Cat. No.	
Conical tube, 50 ml, with flip-top cap	440	734-1437	•

### **BD Falcon™ Cell Culture Tubes**

### **BD Biosciences**



Cell Culture Tubes are tissue culture-treated for cell attachment and spreading.

- Compatible with most tube-rolling equipment
- Convenient cross-hatched index mark assists in positioning tubes
- White screw caps distinguish the tissue culture-treated tubes from general purpose tubes and provide capability for both open and closed incubation

Description	Pk	Cat. No.	
Cell culture tubes, 16x125 mm	500	734-0015	

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#### **Cell Culture**

Cell Culture - Bottles and Tubes

### **BD Falcon™ Round Bottomed Test Tubes**

**BD Biosciences** 



For reliable containment of laboratory fluid samples.

PP tubes: For applications requiring greater thermal and chemical stability

PS tubes: For procedures requiring high optical clarity

- · Widely used and referenced in laboratory protocols
- Dual-position snap caps with heavier gauge walls provide a secure, positive seal
- Specialised tube for flow cytometry applications
- Cell strainer cap tube has a 35um cell strainer mesh incorporated into cap

Description	Pk	Cat. No.	
PS, 12x75 mm, 5ml, snap cap, sterile, 1/pk	500	734-0436	•
PS, 12x75 mm, 5ml, snap cap, sterile, 25/pk	500	734-0445	•
PS, 12x75 mm, 5ml, snap cap, sterile, 125/pk	1000	734-0443	•
PS, 12x75 mm, 5ml, without cap, sterile, 125/pk	1000	734-0442	•
PS, 12x75 mm, 5ml, without cap, non sterile, 1000/pk	1000	734-0000	•
PS, 12x75 mm, 5ml, cell strainer cap, sterile, for flow cytometry, 25/pk	500	734-0001	•
PS, 13x100 mm, 8 ml, screw cap, sterile, 125/pk	1000	734-0439	•
PS, 17x100 mm, 14 ml, snap cap, sterile, 1/pk	500	734-0435	•
PS, 17x100 mm, 14 ml, snap cap, sterile, 25/pk	500	734-0444	•
PS, 17x100 mm, 14 ml, snap cap, sterile, 125/pk	1000	525-0122	•
PS, 17x100 mm, 14 ml, without cap, sterile, 125/pk	1000	734-0989	
PS, 16x125 mm, 16 ml, screw cap, sterile, 1/pk	500	734-0440	
PS, 16x125 mm, 16 ml, screw cap, sterile, 125/pk	1000	734-0986	
PS, 16x150 mm, 19 ml, screw cap, sterile, 1/pk	500	734-0441	
PP, 12x75 mm, 5 ml, snap cap, sterile, 1/pk	500	734-0437	•
PP, 12x75 mm, 5 ml, snap cap, sterile, 25/pk	500	734-0447	•
PP, 12x75 mm, 5 ml, without cap, sterile, 125/pk	1000	525-0123	•
PP, 12x75 mm, 5 ml, without cap, non sterile, 1000/pk	1000	391-0000	•
PP, 17x100 printed mm, 14 ml, snap cap, sterile, 1/pk	500	734-0438	•
PP, 17x100 printed mm, 14 ml, snap cap, sterile, 25/pk	500	734-0446	•
PP, 17x100 printed mm, 14 ml, without cap, sterile, 125/pk	1000	734-0985	

### Cell Culture Tubes, Nunclon™∆

Nunc™



#### PS with PE caps, sterile

Round bottom tubes with screw or push-on cap for standard cell culture, or flat-sided tubes for the culture of adherent cells.



- Flat side allows easy microscopy a coverslip can be used in the tube
- Medium retained in the flat-sided tube in the horizontal position
- Excellent optical quality
- · Certified surface treatment for optimal cell attachment and growth

Description	Recommended working volume (ml)	Pk	Cat. No.	
Round tubes with screw cap, 100x14 mm	7	600	734-2037	•
Round tubes with push-on cap, 100x13 mm	7	600	734-2036	•
Flat-sided tubes with screw cap, 110x16 mm	3	450	734-2068	•





Cell Culture - Bottles and Tubes

### **Disposable Tubes**

Nunc™



#### PS or PP, non-sterile

PS tubes are suitable for a broad range of applications, whilst PP tubes are particularly useful in serology, where the low adsorption of proteins is of great importance.

- · Graduation marked
- PS tubes are transparent
- Stoppers or snap caps sold separately (please enquire for more information)

	Capacity				
Description	(ml)	ØxH (mm)	Pk	Cat. No.	
PS, round bottom	4	11x70	3600	734-0493	•
PP, round bottom	12	15x100	1200	525-0054	•
PS_conical hottom	14	17x110	1800	525-0060	•

### **Culture Tubes with Screw Neck**



### Pyrex® borosilicate glass

Ideal for use with samples sensitive to leaching from plastic tubes.



- Without screw caps
- High resistance to temperature and chemicals
- Autoclavable at 121 °C

Capacity (ml)	ØxH (mm)	Pk	Cat. No.	
7.5	13x100	250	212-7498	
11.5	16x100	1000	212-7522	
15	16x125	1000	212-7523	
19	16x150	1000	212-3418	
24	20x125	500	212-7525	
30	20x150	500	212-7526	
17	16x125	250	212-7520	
29.5	20x145	500	212-7521	
	7.5 11.5 15 19 24 30	7.5 13x100 11.5 16x100 15 16x125 19 16x150 24 20x125 30 20x150 17 16x125	7.5     13x100     250       11.5     16x100     1000       15     16x125     1000       19     16x150     1000       24     20x125     500       30     20x150     500       17     16x125     250	7.5     13x100     250     212-7498       11.5     16x100     1000     212-7522       15     16x125     1000     212-7523       19     16x150     1000     212-3418       24     20x125     500     212-7525       30     20x150     500     212-7526       17     16x125     250     212-7520

# **Disposable Culture Tubes**



#### PS or PP

Ideal for use in bacteriology, radioimmunoassay (RIA), coagulation, and other routine laboratory procedures.

- Manufactured without the use of release agents that could cause errors and interference in RIA tests
- Precision moulding ensures uniform size and shape
- PP tubes are translucent, can withstand centrifugation speeds over 3000 g, are suitable for most common acids, solvents and alkalis at room temperature, are almost unbreakable, and can be sterilised at 120 °C
- PS tubes are transparent, will withstand centrifugation speeds up to 1400 g, can tolerate aqueous solutions, mild bases and weak acids (but not organic solvents, aromatic or chlorinated hydrocarbons), and cannot be autoclaved

#### **Cell Culture**

#### Cell Culture - Bottles and Tubes

	Capacity			
Description	(ml)	ØxH (mm)	Pk	Cat. No.
PS culture tubes, blue	5	12x75	1000	212-9603
PS culture tubes, yellow	5	12x75	1000	212-9604
PP culture tubes, natural	5	12x75	1000	212-9599
PP culture tubes, green	5	12x75	1000	212-9600
PP culture tubes, yellow	5	12x75	1000	212-9602
PP culture tubes, orange	5	12x75	1000	212-9601
PS culture tubes, natural	8	13x100	1000	212-9605
PP culture tubes, natural	8	17x100	1000	212-9597
PS culture tubes, natural	14	17x100	1000	212-9596

### Bioreactors, Disposable, SuperSpinner D1000

#### **Sartorius Stedim Biotech**



The SuperSpinner D 1000 is a fully disposable, pre-assembled and ready-to-use bioreactor for efficient lab scale cultivation of animal cells. The main feature of the SuperSpinner D 1000 is a membrane stirrer, which allows controlled and gentle mixing, bubble-free aeration, and avoids foam generation. Applications include lab scale production of recombinant proteins, monoclonal antibodies and biomass as seed culture (the cultivation broth can be transferred directly from the SuperSpinner D 1000 into a larger bioreactor). Recommended working volume 200-800 ml per flask.

STERILE

The SuperSpinner D 1000 consists of a cultivation flask and a membrane aeration system that also functions as a stirrer. A hollow-fibre membrane is wound around the stirrer bar, which contains a magnetic core driven by a magnetic drive unit. A membrane gas pump feeds ambient air through a sterile filter into the flask.

- Fully pre-assembled, disposable, sterile and ready-to-use
- High cell densities can be achieved due to the efficient membrane-gassing and agitation system
- A clave adapter, which fits to common laboratory syringes, ensures safe and easy sampling in place during cultivation
- Feeding with supplements is possible at any time by using the spare port, which is covered with a Luer-Lock connector
- Centrifugation of the suspension can be carried out in the cultivation flask, which has a format that fits a wide range of standard rotors

**Delivery Information:** Each pack contains two SuperSpinner D 1000 bioreactors.

Recommended working						
Description	volume	Pk	Cat. No.			
SuperSpinner D 1000	200-800	2	432-0099			

# Culture Vessels, Magnetic Nalgene



# Clear, graduated PC vessel, white PP screw caps, Teflon TFE stirring bar and PP/TFE stirring assembly



Specially designed for efficient top-to-bottom mixing at low speed and low shear. This lightweight, break-resistant 1-litre culture vessel is ideal for use on a magnetic stirring plate for small-volume scale-up applications. Two magnetic stirring bars are included: one small (for bacteria) and one large (for mammalian cells).

- Two shoulder access ports for easy removal of samples
- · Impeller height is adjustable
- Thermal resistance -135 to +135 °C, autoclavable
- · Shatter-proof, with high mechanical strength

Brim capacity: 2.2 I

#### **Cell Culture**

#### Cell Culture - Larger Scale/Bioprocessing

Closure diameter (top): 63 mm Closure diameter (side): 38-430 Overall height: 266 mm

Outer diameter: 137 mm

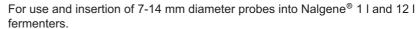
Overall width (including ports): 190 mm

Description	Pk	Cat. No.	
Culture Vessels, Magnetic	1	734-5057	

# Probe Adapter Closures Nalgene



#### PP, white with silicone seal





- Seal separates environment from inside of vessel and prevents contamination when using a probe
- Thermal resistance from -135 to +135 °C
- For Nalgene® 1 I and 12 I fermenters

Description	Pk	Cat. No.	
Probe adapter closures	2	734-5053	

# Culture Vessels with Ports, with or without BioTech Mixer



#### PC culture vessel with white PP closures





• Shatter-proof, with high mechanical strength

Brim capacity: 15 I

Closure diameter (top): 100 mm Closure size (side): 38-430 Overall height: 429 mm Outer diameter: 289 mm

#### Culture vessels with BioTech mixer

The Culture Vessel System with BioTech Mixer consists of a 12 I culture vessel with ports (as described above), 1/8 HP overhead drive BioTech mixer, and a lower assembly comprising 340 mm shaft with 100 mm long axial flow glass filled PP impeller and 63.5 mm wide PP baffle. The BioTech mixer provides variable speed, programmable speed/duration control, clockwise and counter clockwise rotation and is specifically designed for maximum efficiency with system components. Vessel and lower assembly are autoclavable.

Description	Pk	Cat. No.	
Culture vessel, 12 l	1	734-5055	
Culture vessel system with BioTech mixer, 220V	1	734-5056	



#### **Cell Culture**

Cell Culture - Larger Scale/Bioprocessing

# Cell Culture Flasks, Double Side Arm, Celstir®

Wheaton



# Borosilicate glass flask, Teflon® and glass impeller assembly, Teflon® and silicone lined top cap



Double side arm Celstir<sup>®</sup> flasks are ideal for microcarrier and suspension cultures such as insect cells, hybridomas and adapted cell lines.

- · Adjustable paddle blade impeller allows better mixing
- Impeller does not protrude through the top cap, thereby maximising incubator space and reducing the risk of contamination
- Addition of the bottom dimple to flasks 125 ml and larger improves circulation and reduces the accumulation of cells in the centre of the flask
- Flasks 500 ml or larger have a 45 mm side arm to be used as an air vent, media inlet or outlet, innoculation port, pH probe inlet, or other application

Volume (ml)	ØxH (mm)	Cap size	Pk	Cat. No.
		topo 38-430,		
25	38x122	braço lateral 15-	1	734-3006
		415		
		topo 38-430,		
50	38x141	braço lateral 15-	1	734-3007
		415		
		topo 51-400,		
125	65x155	braço lateral 33-	1	734-3008
		430		
		topo 51-400,		
250	85x175	braço lateral 33-	1	734-3009
		430		
500	110x190	topo 100-400,	1	734-3010
	1100100	braço lateral 45	•	
1000	130x250	topo 100-400,	1	734-3011
		braço lateral 45		
3000	178x341	topo 100-400,	1	734-3012
		braço lateral 45		
6000	258x404	topo 100-400,	1	734-3013
		braço lateral 45 topo 100-400,		
8000	293x445	•	1	734-3014
		braço lateral45		

# Cell Culture Flasks, Double Side Arm Celstir<sup>®</sup>, with Heating Jacket Wheaton



# Borosilicate glass flask, Teflon<sup>®</sup> and glass impeller assembly, Teflon<sup>®</sup> and silicone lined top cap



Double side arm Celstir® flasks complete with water jacket allows precise temperature control of flask contents when operated with a recirculating water bath. Hose connectors accept 6 mm tubing.

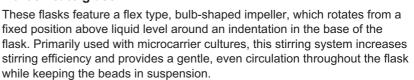
Capacity (ml)	ØxH (mm)	Cap size	Pk	Cat. No.	
25	54x134	top 38-430, side arm 15-415	1	734-3178	
50	54x147	top 38-430, side arm 15-415	1	734-3179	
125	78x162	top 51-400, side arm 33-430	1	734-3180	
250	100x182	top 51-400, side arm 33-430	1	734-3181	
500	130x195	top 100-400, side arm 45	1	734-3182	
1000	150x260	top 100-400, side arm 45	1	734-3183	

Cell Culture - Larger Scale/Bioprocessing

# Microcarrier Spinner Flasks, Magna-Flex® Wheaton



#### **Borosilicate glass**



- Two large side arms with screw cap closures allow easy sampling
- Units 500 ml and larger have 45 mm side arms to be used as an air vent, media inlet or outlet, inoculation port, pH probe, etc
- All flasks have been proportioned to provide a headspace of 1:1 or greater
- Removable stainless steel pin immobilises the impeller during handling or decanting to prevent damage to cells or microcarriers
- Size 125 to 1000 ml are graduated in 50 ml increments; sizes 3000 to 6000 ml are graduated in 500 ml increments

Capacity (ml)	ØxH (mm)	Cap size	Pk	Cat. No.	
		topo 51-400,			
125	65x155	braço lateral 33-	1	734-3000	
		430			
		topo 51-400,			
250	85x175	braço lateral 33-	1	734-3001	
		430			
500	110x190	topo 100-400,	1	734-3002	
	110×100	braço lateral 45	'	754-5002	
1000	130x250	topo 100-400,	1	734-3003	
		braço lateral 45	<u>'</u>		
3000	178x341	topo 100-400,	1	734-3004	
		braço lateral 45	•		
6000	258x404	topo 100-400,	1	734-3005	
0000	200/101	braço lateral 45		104-3003	

# Replacement Flasks for Celstir® and Magna-Flex® Wheaton

Description	Pk	Cat. No.	
25 ml Celstir, flask only	1	734-3169	
50 ml Celstir, flask only	1	734-3170	
125 ml Celstir/Magna-Flex, flask only	1	734-3171	
250 ml Celstir/Magna-Flex, flask only	1	734-3172	
500 ml Celstir/Magna-Flex, flask only	1	734-3173	
1000 ml Celstir/Magna-Flex, flask only	1	734-3174	
3000 ml Celstir/Magna-Flex, flask only	1	734-3175	
6000 ml Celstir/Magna-Flex, flask only	1	734-3176	
8000 ml Celstir/Magna-Flex, flask only	1	734-3177	
25 ml jacketed Celstir, flask only	1	734-3184	
50 ml jacketed Celstir, flask only	1	734-3185	
125 ml jacketed Celstir, flask only	1	734-3186	
250 ml jacketed Celstir, flask only	1	734-3187	
500 ml jacketed Celstir, flask only	1	734-3188	
1000 ml jacketed Celstir, flask only	1	734-3189	

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*(kk* 

#### **Cell Culture**

Cell Culture - Larger Scale/Bioprocessing

### **Tissue Culture Flasks**



#### Siliconised borosilicate glass

For use with the MCS platform biological stirrer, ideal for suspension cell culturing with reduced cell attachment.

- Incorporate a unique base design which, together with the bulb-ended stirrer, ensures that cultures are lifted into suspension at the lowest possible speeds preventing cell damage
- · Can be sealed for use with pathogenic materials
- Culture vessels are siliconised to reduce the possibility of cells attaching to and growing on the surfaces

Capacity (ml)	Neck	Pk	Cat. No.	
125	Straight	1	442-0706	
500	Straight	1	734-0880	

# Shaft Assembly Kit for Celstir® Flasks Wheaton

A non-breakable stainless steel shaft to replace the glass shaft which is included with Celstir® flasks. May be retrofitted to existing Celstirs®.

Pk	Cat. No.	
1	734-3150	
1	734-3151	
1	734-3152	
1	734-3153	
1	734-3154	
1	734-3155	
1	734-3156	
1	734-3157	
1	734-3158	
	1 1 1 1 1	1 734-3150 1 734-3151 1 734-3152 1 734-3153 1 734-3154 1 734-3155 1 734-3156 1 734-3157

# Replacement Impeller for Celstir® Flasks Wheaton



This unit includes a top cap with liners, glass rod, magnet holder, magnet and stirring paddle (for sizes 125 ml or larger).

Description	Pk	Cat. No.	
Impeller for 25 ml flask	1	734-3159	
Impeller for 50 ml flask	1	734-3160	
Impeller for 125 ml flask	1	734-3161	_
Impeller for 250 ml flask	1	734-3162	_
Impeller for 500 ml flask	1	734-3163	_
Impeller for 1000 ml flask	1	734-3165	_
Impeller for 3000 ml flask	1	734-3166	_
Impeller for 6000 ml flask	1	734-3167	
Impeller for 8000 ml flask	1	734-3168	_

Cell Culture - Larger Scale/Bioprocessing

# Cell Production Roller Apparatus, Modular, with All Position Drive Wheaton



This Modular Cell Production Roller Culture Apparatus allows flexibility for scale-up and production of monolayer cell cultures in standard roller bottles. The system consists of a base drive unit and five-position roller deck to which additional roller decks can be added. A powerful DC motor, with soft-start speed control, drives the bottles through a series of durable nonslip belts. The all-position drive is a positive traction drive system for lightweight plastic bottles, in which each roller is individually driven.

- Accepts bottles from 108 to 121 mm in diameter and up to 550 mm in length
- Locking speed control knob prevents accidental change in rotation rates
- Supplied without vessels (available separately)

Power: 230 V, 50/60 Hz, 35 W Bottle speed: 0.25 to 5.3 rpm

WxDxH: Base unit with 1 deck 755x622x340 mm; each additional deck 180 mm

high

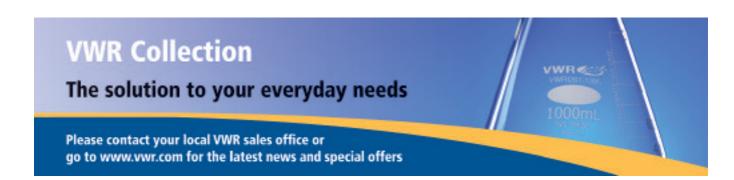
Weight: Base unit with 1 deck 32 kg; each additional deck an additional 9.5 kg

Warning: Not to be used in temperatures exceeding 40°C.

Description	Pk	Cat. No.	
Base with 1 deck, 5 bottle positions, UK plug	1	734-3064	
Base with 2 decks, 10 bottle positions, UK plug	1	734-3067	
Base with 3 decks, 15 bottle positions, UK plug	1	734-3070	
Base with 4 decks, 20 bottle positions, UK plug	1	734-3073	
Base with 5 decks, 25 bottle positions, UK plug	1	734-3076	
Base with 6 decks, 30 bottle positions, UK plug	1	734-3079	
Base with 7 decks, 35 bottle positions, UK plug	1	734-3082	
Base with 8 decks, 40 bottle positions, UK plug	1	734-3085	
Base with 9 decks, 45 bottle positions, UK plug	1	734-3088	

#### **Accessories**

Description	Pk	Cat. No.	
5-position deck with all-position drive	1	734-3062	



#### **Cell Culture**

Cell Culture - Larger Scale/Bioprocessing

### **Small Bottle Bench Top Roller Culture System**

Wheaton



This conventional type roller culture equipment is designed to roll vessels 108 to 121 mm in diameter and up to 290 mm long.

- · Compact unit well suited for research work
- Two outside rollers can be moved inward to accommodate bottles as small as 75 mm in diameter
- Each deck can accommodate two vessels (vessels not supplied)

Power: 230 V, 50/60 Hz, 35 W

Bottle speed: 0.1 to 3.8 rpm (based on 110 mm bottle)

WxDxH: 320x325x180 mm

Weight: 8 kg

Warning: Use in an environment rich in carbon dioxide might necessitate more frequent replacement of motor brushes. Not to be used in temperatures exceeding 40 °C.

Description	Pk	Cat. No.	
Single deck roller apparatus, UK plug	1	734-1168	

#### Deck kit for small bottle roller culture system

Attaches quickly and easily to the Small Bottle Bench Top Roller Culture System. Holds an additional 2 rollers per kit. These units will accept two additional decks. Kit consists of assembled roller deck, four support posts, drive belt, necessary hardware and assembly instructions.

Weight: 2.3 kg

Description	Pk	Cat. No.	
Deck kit for small bottle roller culture system	1	734-1170	

# Mini Bottle Bench Top Roller Culture System

Wheaton



The Mini Bottle Bench Top Roller Culture System is designed for small scale mixing and agitation using bottles that are too small to be accommodated by standard roller apparatus. It is ideal for 30 ml or larger serum bottles, 100-125 ml media bottles or 38x200 mm culture tubes for the growth and observation of single chicken or rat embryos. The compact size makes it suitable for laboratories with limited space and for use with standard incubators and cold rooms. Each single deck unit will accommodate a minimum of four bottles.

- Continuous rotation of cylindrical bottles at predetermined optimum speeds provides better distribution of media and uniform gassing
- System allows precise speed control of the bottles and is designed to compensate for sudden or prolonged line voltage changes
- Roller shafts are mounted in self-lubricating nylon bearings, which eliminates many maintenance problems
- Able to accommodate bottles 38-60 mm in diameter, up to 240 mm long, with bottle speeds of 3-45 rpm (38 mm) bottle and 2-30 rpm (60 mm) bottle
- Supplied without vessels (available separately)

Power: 230 V, 50/60 Hz, 14 W WxDxH: 320x325x180 mm

Weight: 8 kg

Warning: Use in an environment rich in carbon dioxide might necessitate more frequent replacement of motor brushes. Not to be used in temperatures exceeding 40 °C.

Description	Pk	Cat. No.	
Single deck roller apparatus unit, UK plug	1	734-1165	

#### **Cell Culture**

#### Cell Culture - Larger Scale/Bioprocessing

#### Deck kit for mini bottle roller culture system

Mini Bottle Deck Kit can be added to Mini Bottle Roller Culture Apparatus to accommodate an additional four bottles per deck. It is possible to add up to a maximum of two kits per unit.

Weight: 4.1 kg

Description	Pk	Cat. No.	
Deck kit for mini bottle roller culture system	1	734-1163	

#### **BD Falcon™ Roller Bottles**

**BD Biosciences** 



### PS, tissue culture treated, with PE caps, sterile, non-pyrogenic

Roller bottles are used in both research and manufacturing applications involving the scale-up of mammalian cells for purposes of virus propagation and bioproduct production.



- One-piece design compatible with manual or automated filling systems
- Bottle manufacturing process provides greater impact resistance, reducing the risk of accidental loss
- · Available with smooth or pleated surface, and standard cap or vented cap with hydrophobic 0.2 µm microporous membrane

Manufactured in a Class 100,000 cleanroom.

Growth area						
Description	Volume (ml)	(cm²)	Packed	Pk	Cat. No.	
Smooth surface, standard easy on/off cap			2/bag	20	734-0455	
emocur surface, standard easy on on sup	0000	2000	850	20/bag	20	734-0008
Smooth surface, vented easy on/off cap	2000		1/bag	20	734-1274	
Pleated surface, standard easy on/off cap	-	1450	20/bag	20	734-0029	

### **Roller Bottles for Cell Culture DURAN Group**



#### DURAN® glass bottle with DIN thread (GL45)

Supplied with blue PP screw cap and pouring ring.



Ø ext.xH (mm)	Pk	Cat. No.	
110x285	1	391-0670	
110x450	1	391-0672	



Tel: 0800 22 33 44 (freephone) 392.50 Fax: 01455 55 85 86

Email: uksales@uk.vwr.com Web: http://uk.vwr.com

#### **Cell Culture**

Cell Culture - Larger Scale/Bioprocessing

# Cell Culture Chambers, Corning® CellSTACK®

Corning



The Corning CellSTACK Culture Chambers are available in five sizes and with three different surface treatments.



- Two 26 mm diameter filling ports allow direct access to chamber bottom providing greateer flexibility for sterile filling and emptying by pouring, pipetting or via tubing in a fully closed system
- Standard 33 mm threaded caps have 0.2 µm pore non-wettable membranes sealed directly to the caps to allow gas exchange while minimising the risk of contamination
- Optional 33 mm threaded caps are available with integrally sealed USP Class VI certified C-Flex<sup>®</sup> tubing to allow direct sterile transfer of media and cells via pumping or gravity feed
- Polystyrene construction provides excellent optical clarity and mechanical strength

#### TC treated surface

Uncharged polystyrene has an uncharged, hydrophobic surface to which cell attachment proteins bind poorly. This results in poor and uneven cell attachment and growth. Tissue culture (TC) treated polystyrene has a negatively charged, hydrophilic surface to which cell attachment proteins bind evenly. This provides a good surface for cell attachment and growth.

Туре	Growth area (cm²)	Pk	Cat. No.	
1 Chamber	636	8	734-1038	
2 Chamber	1272	5	734-1039	
5 Chamber	3180	8	734-4061	
10 Chamber	6360	2	734-1040	
10 Chamber	6360	6	734-1041	
40 Chamber	25440	2	734-4052	

### Corning® CellBIND® surface

The Corning CellBIND surface enhances cell attachment under difficult conditions, such as reduced-serum or serum-free medium, resulting in higher cell yields.

- More consistent and better, even cell attachment leads to increased cell growth and yields
- · Adapts cells more quickly to reduced-serum or serum-free conditions
- Reduces premature cell detachment from confluent cultures
- May eliminate the need for tedious, time-consuming, low stability biological coatings
- Requires no refrigeration or special handling and is stable at room temperature

Туре	Growth area (cm²)	Pk	Cat. No.	
1 Chamber	636	8	734-1017	
2 Chamber	1272	5	734-1014	
5 Chamber	3180	2	734-4060	
10 Chamber	6360	2	734-1207	
10 Chamber	6360	6	734-1015	
40 Chamber	25440	2	734-1016	

#### **Ultra-Low Attachment surface**

The Ultra-Low Attachment surface is a covalently bonded hydrogel surface that is hydrophilic and neutrally charged. It minimises cell attachment, protein absorptiom and enzyme activation. The surface is non-cytotoxic, biologically inert and non-degradable.

- · Maintains cells in a suspended, unattached state
- Prevents stem cells from attachment-mediated differentiation
- · Prevents anchorage-dependent cells from dividing
- Reduces binding of attachment and serum proteins to the substrate

Туре	Growth area (cm²)	Pk	Cat. No.	
1 Chamber	636	8	734-4059	



Cell Culture

#### Cell Culture - Larger Scale/Bioprocessing

#### **Accessories**

A variety of optional filling caps are available to allow direct aseptic transfer of media and cells via pumping or gravity feed. Several coupling devices are available on these filling caps with or without integrally sealed USP Class VI certified C-Flex® tubing. Optional filling caps with attached filters with hydrophobic membranes provide for gas exchange and faster aseptic venting during liquid transfers. Extra sterile vented or unvented 33 mm replacement caps are also available.

Reusable stacking devices fit between CellSTACK chambers to keep them level and optimise incubator space while providing clearance for gas exchange.

Description	Pk	Cat. No.	
Universal cap, with vented overcap, sterile	4	734-4065	
Solid cap, sterile	6	734-4167	
Vent cap, 9.5 mm ID tubing, 7 cm length, Pall® Acro	5	734-1108	
50, PVDF filter, sterile		734-1100	
Vent cap, 9.5 mm ID tubing, 7 cm length, Pall	4	734-1205	
Bacterial Air Vent, sterile			
Vent cap, 0.2 mm membrane, sterile	6	734-4166	
Two vented overcaps and one solid overcap for the	100	734-1208	
universal cap, sterile			
Fill cap, 3.2 mm ID tubing, female luer lock with	5	734-1109	
male luer plug, sterile Fill cap, 6.4 mm ID tubing, 70 cm length, male MPC			
coupling with female end cap, sterile	4	734-1209	
Fill cap, 9.5 mm ID tubing and 7.94 mm barbed			
fitting, sterile	5	734-1110	
Fill cap, female MPC coupling, 6.4 mm ID barbed		704 4000	
fitting with male end cap, sterile	4	734-4062	
Fill cap, female MPC coupling, 9.5 mm ID barbed	4	734-4063	
fitting with male end cap, sterile	4	734-4003	
Fill cap, male MPC coupling, 6.4 mm ID barbed	4	734-4066	
fitting with female end cap, sterile			
Fill cap, male MPC coupling, 9.5 mm ID barbed	4	734-4068	
fitting with female end cap, sterile			
Stacking device, ABS, non-sterile	5	734-4064	

All caps are 33 mm threaded caps

# Cell Factories, EasyFill™, Nunclon™∆

Nunc™



#### PS, sterile

The EasyFill Cell Factory has one large and one small opening in each unit, which makes it versatile and easy to use. EasyFill Cell Factory bridges the gap between small scale research and large scale GMP production. It can be used as it is, without any accessories, or used with plug and play connections for rapid attachment of tubing and filters, significantly reducing contamination risk. EasyFill systems are available with one, two, four or ten growth chamber levels, providing surface areas ranging from 630 cm² to 6300 cm².

- Versatile large opening facilitates the desire to pour media directly and small opening supports those that need a closed, aseptic system for filling and harvesting
- Bridges small scale process development with large scale production
- Easy to use and ready to use straight from the box, no accessories needed
- · High yield and process efficiency
- Nunclon<sup>™</sup>∆ surface treatment to promote consistent performance for cell attachment and proliferation in serum free and serum containing media

WxL: 250x335 mm

**Delivery Information:** Shipped sterile and ready to use, for single use applications.



#### **Cell Culture**

#### Cell Culture - Larger Scale/Bioprocessing

		Recommend			
	Growth area	ed working			
Туре	(cm²)	volume (ml)	Pk	Cat. No.	
1 Level	6302	200	6	734-2242	
2 Levels	1260	400	6	734-1443	
4 Levels	2520	800	4	734-1445	
10 Levels	6300	2000	2	734-1444	

#### **Accessories**

Description	Pk	Cat. No.	
PC connector	10	390-0343	
Gelman filter with connector, sterile	2	390-0344	
0.2 µm air filter with connector, sterile	2	390-0345	

### Cell Factories, Nunclon™∆

### Nunc™



#### PS, sterile

For the industrial scale production of, for example, vaccines, monoclonal antibodies or pharmaceuticals.

- Ideal for adherent cells, but can also be used for suspension cultures
- · Growth kinetics are unaltered from laboratory scale culture
- Available in 1,2,10 and 40 tray versions for easy scale-up
- · Low contamination risk
- Certified Nunclon™∆ surface treatment ensures excellent conditions for cell attachment and growth

Tray LxW: 335x205 mm

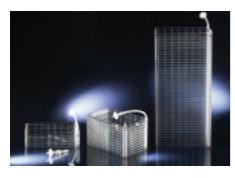
	Recommended working				
Type 1 level	volume (ml)	Growth area (cm²)	Pk	Cat. No.	
	200	632	8	732-2603	•
2 Levels	400	1264	5	732-2606	•
10 Levels	2000	6320	2	734-2082	•
10 Levels	2000	6320	6	734-2105	•
40 Levels	8000	25280	2	734-2028	

#### **Accessories**

Description	Pk	Cat. No.
Cover caps	400	734-2143
Start-up kit, sterile	1 Kit	734-2106
Connector Teflon®	10	734-2110
Filter	10	391-8339

# Cell Factories for Active Gassing, Nunclon™∆

#### Nunc™



### PS, sterile

For industrial scale production of, for example, vaccines, monoclonal antibodies, or pharmaceuticals. The patented gas-flow system secures a controlled atmosphere in the culture trays by equal distribution of user-specified gas mix actively pumped through the pre-mounted filter. Particularly oxygen demanding and pH sensitive cells may benefit from the controlled atmosphere.

- Gas is equally distributed between trays, as well as in each individual tray
- Surface treatment ensures excellent conditions for cell attachment and growth
- Available in 4, 10 and 40 tray versions for easy scale up
- Low contamination risk
- Compatible with existing manual and automated handling equipment from  $\mathsf{Nunc}^\mathsf{TM}$

Tray LxW: 335x205 mm



TERIL



#### **Cell Culture**

### Cell Culture - Larger Scale/Bioprocessing

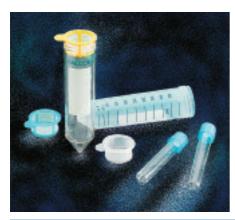
	Recommended working			
Туре	volume (ml)	Growth area (cm²)	Pk	Cat. No.
4 Levels	800	2528	10	734-1366
10 Levels	2000	6320	6	734-1339
40 Levels	8000	25280	2	734-1367

#### **Accessories**

Description	Pk	Cat. No.	
Start-up kit, sterile	1 Kit	734-2106	
Connector Teflon®	10	734-2110	
Cover caps	400	734-2143	
Filter	10	391-8339	

### **BD Falcon™ Cell Strainers**

#### **BD Biosciences**



An easy, ready-to-use way to consistently obtain a more uniform single-cell suspension. Made of a strong nylon mesh and available with 40, 70 or 100  $\mu m$  pores that are evenly spaced for optimal performance in a variety of applications. A faster and easier alternative to gauze filtration in procedures involving dissociation of cells from either clumps or primary tissue.



- Moulded, colour-coded PP frame with tab enables easy handling
- Fits perfectly into a 50 ml BD Falcon™ conical tube or other similarly sized tube
- Sterilised by gamma irradiation and conveniently available in individual, peel-open packaging
- Extended lip on strainer enables aseptic handling with forceps

Description	Pk	Cat. No.	
Cell strainers, 40 µm pore size, blue frame	50	734-0002	•
Cell strainers, 70 µm pore size, white frame	50	734-0003	•
Cell strainers, 100 µm pore size, yellow frame	50	734-0004	•

### **BD Falcon™ Cell Scrapers**

#### **BD** Biosciences



#### PS handle, TPE blade

Designed to provide maximum accessibility to the growth surfaces of a variety of culture vessels.



- Cross-ribbed PS handle provides greater rigidity, to ensure better control while scraping cells
- Highly compliant TPE blade pivots to provide multiple angles to remove cells from the entire growth surface

Description	Total length (mm)	Pk	Cat. No.	
Cell scraper for use with 12.5-25 cm <sup>2</sup> vessels, 18 mm blade	180	100	734-0385	•
Cell scraper for use with 75 cm <sup>2</sup> vessels, 18 mm blade	250	100	734-0386	•
Cell scraper for use with 75 cm <sup>2</sup> vessels, 30 mm blade	250	100	734-1111	•
Cell scraper for use with 150-175 cm <sup>2</sup> vessels, 30 mm blade	400	100	734-0387	•

#### **Cell Culture**

**Cell Culture - Accessories and Sealing Systems** 

### **Cell Scrapers**

Nunc™



Cell scrapers for cell harvesting are available in two lengths, with adjustable blade for optimal application flexibility. Non-pyrogenic.



Description	Total length (mm)	Pk	Cat. No.	
For use with 25-80 cm <sup>2</sup> flasks, blade offset 7.5 mm, blade width 15.5 mm	230	250	734-2132	•
For use with 75-175 cm <sup>2</sup> flasks, blade offset 16 mm, blade width 17.5 mm	320	250	734-2133	•

# **Cell Scrapers and Cell Lifters**

#### Corning



Useful for the manual harvesting of cells, scrapers are designed for use in flasks and cell lifters for use in harvesting cells (especially stem cells) in dishes

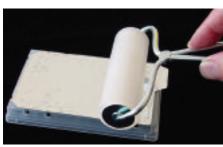


- Blade design minimises cell damage and ensures even contact with the growth surface
- · Individually wrapped
- Sterilised by gamma radiation
- · Certified non pyrogenic

Description Pk	Cat. No.	
Cell lifter, 19 mm blade, 180 mm handle	734-1526	
Small cell scraper, 18 mm blade, 250 mm handle 100	734-1527	•
Large cell scraper, 30 mm blade, 390 mm handle 100	734-1528	

# Plate Roller for Securing Films and Foils to Microplates





Soft rubber roller recommended for assuring tight and consistent application of adhesive films to microplates.

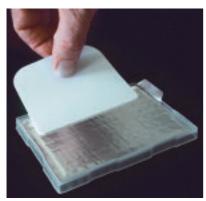


Description	Pk	Cat. No.	
Plate roller	1	391-1278	•

Cell Culture - Accessories and Sealing Systems

### Plate Paddles for Securing Films and Foils to Microplates





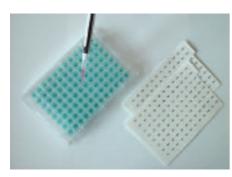
An alternative to the plate roller for pressing films to assure a secure uniform seal around all wells. The paddles are especially recommended for sealing films on raised-rim plates because they fit within the rim of the plate.



Description	Pk	Cat. No.	
Film sealing paddles	50	391-1283	

### Well Identification Labels for 96-Well Flat Bottom Plates





Handy labels for application on the underside of flat-bottom 96-well plates. Each well is identified by a black-on-clear alphanumeric index that can be easily captured in microscopic images. Label positions easily by alignment with inside of plate edges.

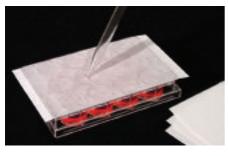


- · Identify wells clearly when pipetting
- · Identify wells under microscopic examination
- Position easily on underside of standard 96-well plates

Description	Pk	Cat. No.	
Plate bottom labels, non-sterile	100	391-1284	
Plate bottom labels, sterile	50	391-1285	

# **Breatheable Rayon Films for Biological Cultures**





A 114 µm thick hydrophobic porous film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth. These rayon films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO<sub>2</sub> exchange for all wells, unlike plate lids which favour exchange for wells near plate edges. Sterile product is packaged in tamper-evident bags of 25.



- · Non-cytotoxic, highly gas permeable
- Pierceable with tips or pipettes for sample recovery
- Recommended for temperatures from -20 °C to +80 °C

Each film LxD: 142.9x82.6 mm for standard-size tissue culture plates

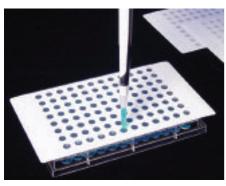
Description	Pk	Cat. No.	
Rayon films, non-sterile	100	391-1261	
Rayon films, sterile	50	391-1262	•

#### **Cell Culture**

**Cell Culture - Accessories and Sealing Systems** 

### Pierceable Films for Robotics, Clear-Zone





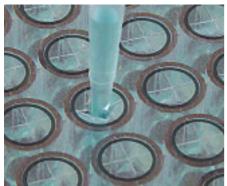
Addition of a die-cut white polypropylene sub-layer provides these polyethylene films with an adhesive-free zone above each well for applications where adhesive fouling of pipette tips or robotic probes is a concern. Suitable for 96-well plates only.

- Clear zone above each well is free of adhesive
- · Minimise sample exposure to adhesive

Description	Pk	Cat. No.	
Clear-Zone films, non-sterile	50	391-1264	•
Clear-Zone films, sterile	50	391-1265	

### **Precut Pierceable Vinyl Films for Robotics**





These 100  $\mu$ m thick vinyl films with 20  $\mu$ m adhesive layer are designed for temporary protection of samples in 96-well plates from contamination and evaporation. A precut pattern over each well separates the film into four flaps that bend inward easily when pushed by a robotic probe or pipette tip, allowing access to the sample without coring or adhesive fouling. The resilient flaps regain their original position after sampling for continued sample protection. For long-term sample protection after sampling, a continuous film should be applied as a second layer. Suitable for sealing all standard 96-well plates.

- Protect samples and limit evaporation short-term
- Precut flaps bend inward without fouling probes or tips
- Flaps close for continued protection after sampling

Each film LxD: 145.5x79.4 mm

Description	Pk	Cat. No.	
Precut vinyl films, non-sterile	100	391-1286	
Precut vinyl films, sterile	50	391-1287	

# Breathable Sealing Film Axygen



Porous film seals PP and PS culture plates, 96- and 384- well plates, and other assay plates.

- Allows effective gas exchange for cellular and bacterial cultivation and prevents contamination
- · Sterile packs available

Description	Pk	Cat. No.	
Breathable film non sterile	100	732-1027	
Breathable film sterile	50	732-1028	•

**Cell Culture** 

#### **Cell Culture - Accessories and Sealing Systems**

# Sealing Film, AxySeal Axygen



Polyester based with uniformly and consistently applied acrylic adhesive to eliminate the edge effect in ELISA assays. Suitable for sealing tissue culture plates, for short-term storage and incubation, for transport and the containment of biohazardous solutions.

- No edge effect in ELISA assays
- Functional temperature range of -40 to +104 °C

Description	Pk	Cat. No.	
Sealing film	100	732-7506	•

# Sealing Mats, BugStopper™ Whatman



Bugstopper™ sealing mats provide a simple and reliable method for venting cultures being grown in a 24-well microplate. This reusable, autoclavable, sterile closure, which is produced using chemically resistant bio-safe silicone rubber, incorporates hydrophobic microfilters which provide an ideal vent for each well and eliminates well-to-well cross contamination. More efficient than plastic lids, testing has confirmed that Bugstopper™ sealing mats improve cell growth and significantly reduce evaporation, making them ideal for extended growth of slow growing bacteria and fungi.



- Repeated autoclave cycles do not affect gas exchange or retention capabilities
- Rated 99.9% efficient for bacteria and viruses, by restricting microorganisms while allowing O<sub>2</sub> and CO<sub>2</sub> to pass through the membrane
- Silicone rubber reseals after puncture thus keeping cultures sterile during inoculation or aspiration

Description	Pk	Cat. No.	
Sealing mats BugStopper™	5	512-1044	

# BD™ Endothelial Cell Growth Supplement

#### **BD Biosciences**

Endothelial Cell Growth Supplement (ECGS) is a broadly used supplement to culture a variety of cells, particularly endothelial cells. ECGS contains various growth factors (for example, acidic FGF or ECGF-a).

Formulation	Lyophilised from NaCl-containing buffer with streptomycin sulphate; reconstitute in serum-free medium.
Source	Bovine brain
	Tested for ability to promote proliferation of Foetal Bovine Heart Endothelial Cells (FBHEC) in medium
Quality control	containing 10% newborn calf serum
	Filtered (0.2 µm membrane) and tested and found negative for bacteria, fungi and mycoplasma
Recommended concentration	5-150 μg/ml medium depending on cell type. Some primary cells require supplementation of 1-100 μg/ml
Recommended concentration	heparin.
Storage and stability	Stable for at least three months at 2 to 8 °C (lyophilised) or = one month at -20 °C (solubilised).
Storage and stability	Avoid multiple freeze-thaw cycles.

Description	Pk	Cat. No.	
BD™ endothelial cell growth supplement	15 mg	734-1306	

#### **Cell Culture**

Cell Culture - Media and Supplements

### **BD™ MITO+ Serum Extender**

#### **BD Biosciences**

BD<sup>TM</sup> MITO+ Serum Extender is a concentrated, fully defined formulation of hormones, growth factors (EGF and FGF), and other metabolites (insulin and steroid hormones). It can be used to culture a variety of cells under serum-free or serum-reduced conditions.

	Lyophilised from a solution of Dulbecco's Phosphate Buffered Saline (DPBS) containing ECGS, EGF,
Formulation	insulin, human transferrin, triiodotryronine, progesterone, oestradiol-17ß, testosterone, hydrocortisone,
	selenous acid, and o-phosphorylethanolamine; reconstitute in 5 ml distilled H2O (stock solution).
O and the second and	Tested for ability to promote proliferation of BALB/c-3T3 cells in serum-reduced medium
Quality control	Filtered (0.2 µm membrane) and tested and found negative for bacteria, fungi and mycoplasma
Recommended concentration	1:1000 (dilute stock solution in serum-reduced medium)
Storage and stability	Stable for at least three months at 2-8 °C (lyophilised) or 3 months at -20 °C (solubilised). Avoid multiple
	freeze-thaw cycles.

Description	Pk	Cat. No.	
BD MITO+	5 ml	734-1317	

# Serum Replacement, Nu-serum™

#### **BD Biosciences**

BD Nu-serum<sup>TM</sup> growth media supplement provides a low-protein alternative to newborn calf, foetal bovine, and other sera routinely used for cell culture. The low-protein content facilitates protein purification, virus production, monoclonal antibody production and screening, and increases the frequency of successful transfection of cells.

	Frozen solution containing 2.5% foetal bovine serum, EGF, ECGS, insulin, human transferring,
Formulation	triiodothyronine, progesterone, oestradiol-17ß, testosterone, hydrocortisone, selenous acid, o-
	phosphorylethanolamine, glucose, amino acids, vitamins, and other trace elements and nutrients
	contained in the Ham's F12 medium base
	Tested at a concentration of 10% for the ability to stimulate a =100-fold increase in growth of BHK-21 and
	a = 13-fold increase in growth of BALB/c-3T3 cells
	Tested for total protein content, pH, and osmolarity
Quality control	Filtered (0.2 µm membrane) and tested and found negative for bacteria, fungi, mycoplasma, and viruses
	(bovine diarrhea virus, bovine parvovirus, bovine adenovirus, and rabies virus); also tested for the
	absence of cytopathic effects (CPE), inclusion bodies and haemadsorption
	Tested for endotoxin (LAL assay)
Recommended concentration	Replaces foetal bovine and other sera on an equivalent volume basis
Storage and stability	Stable for at least three months at -20 °C

Description	Pk	Cat. No.	
BD Nu-Serum	500 ml	734-1318	

# BD™ Collagen II

#### **BD Biosciences**

Collagen II is the principal collagenous component of cartilage, intervertebral disc, and vitreous humour. Collagen II supports chondrocyte adhesion and may influence the differentiated phenotype of these cells. In culture, Collagen II is used for attachment and differentiation of chondrocytes. It can also be used as an in vivo model in rats and mice for arthritis studies (injection of Bovine Collagen II induces arthritis).

Formulation	Frozen in 15 mM acetic acid
Source	Bovine articular cartilage
Quality control	Quality controlled by SDS-PAGE and tested and found negative for bacteria, fungi, and mycoplasma
Storage and stability	Stable for at least three months at -70 °C

Description	Pk	Cat. No.	
BD™ Collagen II, bovine	5 mg	734-1272	

#### **Cell Culture**

#### Cell Culture - Media and Supplements

### BD™ Collagen V

#### **BD Biosciences**

Collagen V is found in whole placenta, amnion, chorion, and cornea. It can be used as a thin coating on tissue culture surfaces to study Collagen V effects on cell behavior. Collagen V has been shown to inhibit endothelial cell proliferation selectively.

Formulation	Frozen in 10 mM acetic acid
Source	Human placenta
Quality control	Quality controlled by SDS-PAGE and tested and found negative for bacteria, fungi, and mycoplasma
Quality Control	Source material tested for hepatitis B antigen and HIV-1 antibody
Storage and stability	Stable for at least three months at -70 °C

Description	Pk	Cat. No.	
BD™ Collagen V, human	250 µG	734-0106	

### **BD™** Fibronectin

#### **BD Biosciences**

Fibronectin (FN) is found in interstitial matrix and plasma. The principal function of Fibronectin appears to be in cellular migration during wound healing and development. It can be used as a thin coating on tissue culture surfaces to promote attachment, spreading and proliferation of a variety of cell types.

Formulation	Lyophilised from CAPS buffer containing NaCl and CaCl2, pH 11.0; reconstitute in distilled water (do not
Formulation	agitate or swirl)
Source	Human plasma
Quality control	Quality controlled by SDS-PAGE and tested and found negative for bacteria, fungi and mycoplasma.
Quality Control	Source material tested for hepatitis B antigen and HIV-1 antibody
Molecular weight	440 kD (unreduced form)
Storage and stability	Stable for three months at 2-8 °C (lyophilised) or two weeks at -20 °C (solubilised). Do not store in frost-
Storage and stability	free freezer. Avoid multiple freeze-thaws.

Description	Pk	Cat. No.	
	1 mg	734-0085	
Fibronectin, human	5 mg	734-0101	
	25 mg	734-0103	

## **BD™ Poly-D-Lysine**

#### **BD Biosciences**

Poly-D-Lysine (PDL) is a synthetic molecule used as a coating to enhance cell attachment to plastic and glass surfaces. It has been used to culture a wide variety of cell types, particularly neurons, glial cells, and transfected cells.

Formulation	Lyophilised from aqueous solution; reconstitute in distilled water
Source	Synthetic
Quality control	Quality controlled by SDS-PAGE and tested and found negative for bacteria, fungi, and mycoplasma
Molecular weight	500-550 kD
Storage and stability	Stable for at least three months at 2-8 °C (lyophilised) or one week at 2-8 °C (solubilised)

Description	Pk	Cat. No.	
Poly-D-Lysine	20 mg	734-1102	

Email: uksales@uk.vwr.com 392.60 Fax: 01455 55 85 86 Web: http://uk.vwr.com

#### **Cell Culture**

Cell Culture - Media and Supplements

#### **BD™ Vitronectin**

#### **BD Biosciences**

Vitronectin is also known as S-protein, serum spreading factor epibolin. Vitronectin and fibronectin are the two major adhesive proteins in plasma and serum. When used as coating on tissue culture surfaces, vitronectin is useful to promote cell attachment, spreading, proliferation, and differentiation normal and neoplastic cells, and to study cell migration.

Formulation	Lyophilised (dialysed against 10 mM phosphate buffer, pH 7.7); reconstitute in distilled water or buffered solution at neutral pH
Source	Human plasma
Overlite a control	Quality controlled by SDS-PAGE and tested and found negative for bacteria, fungi, and mycoplasma.
Quality control	Source material tested for hepatitis B antigen and HIV-1 antibody
Molecular weight	75 kD and 65 kD components
Storage and stability	Stable for at least three months at 2-8 °C (lyophilized) or one week at 2-8 °C (solubilised)

Description	Pk	Cat. No.	
BD™ Vitronectin	250 μG	734-0098	

### BD Cell-Tak™ Cell and Tissue Adhesive

#### **BD Biosciences**

BD Cell-Tak™ Cell and Tissue Adhesive is a formulation of polyphenolic proteins extracted from Mytilus edulis (marine mussel). These proteins are the key components of the glue secreted by the mussel to anchor itself to solid substrates in the marine environment. BD Cell-Tak™ is used to attach cells or tissue sections to many types of surfaces, including plastic, glass, metal, Teflon®, and biological materials. It can simplify the manipulation of biological samples for a number of in vitro techniques, including in situ hybridization, immunoassays, microinjection, immunohistochemistry, and establishing primary cells in culture. BD Cell-Tak™ is biocompatible and demonstrates no species specificity.

Formulation	As a liquid in 5% acetic acid
Source	Polyphenolic proteins secreted by Mytilus edulis
	Dopa: protein ratio >0.05
Quality control	Tested for ability to promote cell attachment and spreading of BHK-21 and U937 cells
	Tested and found negative for bacteria, fungi, and mycoplasma
Molecular weight	110-140 kD
Storage and stability	Stable for at least three months at 2-8 °C. Do not freeze.

Description	Pk	Cat. No.	
	1 mg	734-1081	
BD Cell-Tak cell and tissue adhesive	5 mg	734-1083	
	10 mg	734-0102	

# **BD™ Matrigel Matrix High Concentration**

#### **BD Biosciences**

BD Matrigel™ Matrix High Concentration (HC) is suited for *in vivo* applications where a high protein concentration augments growth of tumours. The high protein concentration also allows the BD Matrigel Matrix plug to maintain its integrity after subcutaneous injection into mice. This keeps the injected tumour cells and/or angiogenic compounds localized for *in situ* analysis and/or future excision. Applications include *in vivo* angiogenesis studies and augmentation of tumour growth in nude

- Typical protein concentration 18-22 mg/ml
- · Lot specific specification sheet supplied with each delivery
- Tested for the ability to promote neurite outgrowth of chick dorsal root ganglia cells and for the ability to gel quickly and maintain its form with culture medium for a period of 14 days at 37 °C
- · Bacteria-, fungi- and mycoplasma-free
- Endotoxin tested by LAL assay

Description Pk	(	Cat. No.	
BD Matrigel™ Matrix, high concentration, phenol red free 10 r	ml	734-1402	
BD Matrigel™ Matrix, high concentration 10 r	ml	734-0273	

Cell Culture - Media and Supplements

# **BD Matrigel™ Basement Membrane Matrix**

#### **BD Biosciences**

BD Matrigel™ Basement Membrane Matrix is a solubilised basement membrane preparation extracted from the Engelbreth-Holm-Swarm (EHS) mouse sarcoma, a tumour rich in extracellular matrix proteins. Its major components are laminin, followed by collagen IV, entactin, and heparan sulphate proteoglycan. It also contains growth factors that occur naturally in the EHS tumour. At room temperature, BD Matrigel™ Matrix polymerizes to produce biologically active matrix material resembling the mammalian cellular basement matrix. BD Matrigel Basement Membrane Matrix is effective for the attachment and differentiation of both normal and transformed anchorage dependent epithelial and other cell types. The Growth Factor Reduced (GFR) product is useful where a more highly defined basement preparation is desired.

Source	Engelbreth-Holm-Swarm mouse tumour
	Tested for ability to gel quickly and maintain this form with culture medium for a period of 14 days at 37 °C
Tested for the ability to promote neurite outgrowth of chick dorsal root ganglia cells	
Quality control	Tested and found negative for bacteria, fungi, and mycoplasma
	Tested for endotoxin (LAL assay)
Storage and stability	Stable for at least three months at -20 °C or 12 days at 37 °C

Description	Pk	Cat. No.	
BD Matrigel™ Basement Membrane Matrix	10 ml	734-1100	
Growth factor reduced BD Matrigel™ Matrix	10 ml	734-0269	

### **BD™ Human Extracellular Matrix**

#### **BD Biosciences**

Human Extracellular Matrix (ECM) is a chromatographically partially purified matrix extract derived from human placenta. It is comprised of laminin, collagen IV, and heparan sulphate proteogycan. Human ECM promotes attachment, spreading, mitosis, and differentiation of anchorage-dependent epithelial cells, particularly of human origin.

Formulation	Frozen in 20 mM sodium phosphate buffer, pH 7.4
Source	Human placenta
Quality control	Partially purified
	Tested for ability to initiate differentiation of NG-108 human neuroblastoma cells
	Filtered and tested and found negative for bacteria, fungi, and mycoplasma
	Source material tested for hepatitis B antigen and HIV-1 antibody
Storage and stability	Stable for at least three months at -70 °C

Description	Pk	Cat. No.	
Extracellular Matrix, human	1 mg	734-0097	

### **BD™ 3-Dimensional Scaffolds**

#### **BD Biosciences**

A variety of 3D biodegradable scaffolds are used as artificial substitutes for the extracellular matrix. These materials may consist of natural molecules and/or synthetic polymers. In contrast to conventional 2D cell culture systems, 3D scaffolds provide an adhesive substrate that also serves as a 3D physical support matrix for *in vitro* cell culture as well as in vivo tissue regeneration.

Typo	BD™ 3D Calcium Phosphate	BD™ 3D Collagen Composite	BD™ 3D OPLA® Scaffold
Туре	Scaffold	Scaffold	BD 3D OPLA Scalloid
Scaffold Øxh (mm)	5x3 (fit into well of a 96-well plate)	5x3 (fit into well of a 96-well plate)	5x3 (fit into well of a 96-well plate)
Volume (cm³)	0.058	0.039	0.039
Hydration capacity (µI)	30	25	30
Average pore size (µm)	200-400	100-200	100-200
Property	Sponge-like structure/non-	Sponge-like	Sponge-like structure/non-
Property	compressible	structure/compressible	compressible
Storage and stability	Stable for at least 12 months	Stable for at least 12 months	Stable for at least 12 months
	when stored at 4-30°C	when stored at 4-30°C	when stored at 4-30°C

#### **Cell Culture**

#### Cell Culture - Media and Supplements

#### BD™ 3D Calcium Phosphate Scaffold

This is a proprietary mineralised calcium phosphate bioceramic that is ideal for *in vitro* and *in vivo* analysis of bone metabolism and cartilage regeneration. Applications include promotion of cell growth and differentiation (e.g., MC3T3-E1 osteoblasts), stationary cell cultivation in Multiwell plates, dynamic cell seeding in larger vessels (e.g., BD Falcon™ 50 ml conical tubes), bone remodeling studies *in vitro* and *in vivo*, and non-invasive evaluation of cell growth using the BD Oxygen Biosensor System.

Description	Pk	Cat. No.	
BD™ 3D Calcium Phosphate Scaffold	24	734-1063	

#### BD™ 3D Collagen Composite Scaffold

This is a natural scaffold manufactured from a proprietary mixture of collagens that are derived from bovine hide. Overall, this material exhibits collagen fibrillar architecture, which is representative of the structure of collagen within the interstitial matrix. Applications include promotion of cell growth and differentiation (e.g., MC3T3-E1 osteoblasts, WI-38 human lung fibroblasts, primary rat hepatocytes), ECM pre-incubation for specific stem/progenitor cell differentiation assays, dynamic cell seeding in larger vessels (e.g., BD Falcon™ 50 ml conical tubes), and non-invasive evaluation of cell growth using the BD Oxygen Biosensor System.

Description	Pk	Cat. No.	
BD™ 3D Collagen Composite Scaffold	24	734-1061	

#### BD™ 3D OPLA® (Open-Cell Polylactic Acid) Scaffold

This is a synthetic polymer scaffold that is synthesized from D,D-L,L polylactic acid. This material has a faceted architecture, which is effective for culturing high-density cell suspensions. Applications include short- and long-term growth and differentiation of a variety of cell types, including epithelial cells (e.g., hepatocytes), neurons, endothelial cells, osteoblasts, chondrocytes, fibroblasts, and smooth muscle cells, ECM pre-incubation for specific stem/progenitor cell differentiation assays, dynamic cell seeding in larger vessels (e.g. BD Falcon™ 50 ml conical tubes), and non-invasive evaluation of cell growth using the BD Oxygen Biosensor System.

- Support short- and long-term growth and differentiation of a variety of cells
- Suitable for in vitro and in vivo basic research

Description	Pk	Cat. No.	
BD™ 3D OPLA® Scaffold	1	734-1062	

### **BD™** Dispase

#### **BD Biosciences**

Dispase is a bacillus-derived neutral metalloprotease that is recommended for recovering cell cultured on BD Matrigel™ Basement Membrane Matrix. Dispase will yield a single cell suspension far more gently and effectively than trypsin, collagenase, or other proteolytic enzymes; it will not harm cells harvested for sub cultivation or bioassays. In addition, Dispase may be used for tissue dissociation. Dispase cleaves fibronectin, collagen IV, and to a lesser extent collagen I, but is does not cleave collagen V or laminin.

Description	Pk	Cat. No.	
BD™ Dispase, 5000 caseinolytic units	100 ml	734-1312	

# **BD™ Cell Recovery Solution**

#### **BD Biosciences**

BD™ Cell Recovery Solution allows for the recovery of cells cultured on BD Matrigel™ Basement Membrane Matrix for subsequent biochemical analysis. BD Cell Recovery Solution depolymerises BD Matrigel Matrix gels without enzymatic digests and lengthy incubation periods at high temperatures. Cells are released without damage thereby avoiding biochemical changes during incubation and digestion of extracellular portions of cell-surface receptors and adhesion molecules.

Formulation	Non-enzymatic proprietary solution
	Tested for ability to depolymerise a 1 mm thick layer of gelled BD Matrigel™ Matrix after one hour at 2-8
Quality control	°C
	Filtered and tested and found negative for bacteria, fungi, and mycoplasma
Storage and stability	Stable for at least three months at 2-8 °C

Description	Pk	Cat. No.	
BD cell recovery solution	100 ml	734-0107	



**Cell Culture - Media and Supplements** 

# Ampicillin, Sodium Salt AppliChem

Ampicillin is a half-synthetic penicillin (ß-lactam antibiotic), known to interfere with the wall peptide crosslinking in growing bacteria. It inhibits the enzyme activity of transpeptidase, carboxypeptidase and endopeptidase. Its action is bactericidal and the pH optimum for its action ranges from pH5.5-6.

Ampicillin sodium salt is readily water soluble and stock solutions are prepared at concentrations of 50 mg/ml, stored at -20 °C in aliquots. The working concentration in LB-ampicillin plates, LB or TB medium is 50 µg/ml (dilution 1:1000).

Stability: The activity of a 10% aqueous solution of ampicillin, if stored at +4 °C (pH 7), is reduced by 15% after 24 hours, 33% after 48 hours and 65% after 7 days. At room temperature, the corresponding loss of activity is 28%, 45% and 81%, respectively.

Pk	Cat. No.
10 g	A0839.0010
25 g	A0839.0025
100 g	A0839.0100

### **G418 Disulphate**

### **AppliChem**

G418 blocks protein synthesis in mammalian cells by interfering with ribosomal function. It is an aminoglycoside antibiotic, similar in structure to neomycin, gentamycin, and kanamycin. G418 disulphate is used for the selection of stably transformed cells, which have incorporated the neomycin resistance gene (aminoglycoside phosphotransferase) derived from the transposons Tn 5 and Tn 601, respectively.

Stability and Solubility: G418 is stable at +4 °C. Solutions are stored at -20 °C and are stable for up to 2 years. Stock solutions of G418 should be prepared in a highly buffered solution, so that addition of the drug does not alter the pH of the medium. Stock solutions can be prepared at a concentration of 50 mg/ml.

Pk	Cat. No.
1 g	A2167.0001
250 mg	A2167.0250
500 mg	A2167.0500

### **Gentamycin Sulphate**

#### **AppliChem**

Gentamycin is an aminoglycoside antibiotic and was isolated from *Micromonospora* species (actinomycetales). The sulphate salt is soluble in water, formamide, ethylene glycol, 0.1 N NaOH or 0.1 N HCl at a concentration of >20 mg/ml. It is insoluble in methanol, ethanol, acetone, benzene or chloroform. In solution Gentamycin is very stable at -20 to +37 °C. Short autoclaving is possible. It may be employed in the pH range from 2.2 and 10 without loss of activity.

Pk	Cat. No.
1 g	A1492.0001
5 g	A1492.0005
10 g	A1492.0010
25 g	A1492.0025

#### Penicillin G Potassium Salt

#### **AppliChem**

Penicillin G was isolated from *Penicillium notatum*. The bactericidal effect of this ß-lactam antibiotic is based on the irreversible inhibition of transpeptidase, interfering with the biosynthesis of the cell wall in bacteria.

Stability: Penicillin G potassium salt is readily water soluble. The dry substance can be stored at room temperature or +4 °C and is stable for up to 5 years. The buffered solution (pH 4.5-7) loses 5% of its activity after 20 days at +4 °C. Storage of the solution at room temperature results in a 5% loss of activity after 48 hours, 10% loss after 7 days, and 20-50% loss after 14 days. The stability in unbuffered solution is much lower (approximately 3-7 days at +4 °C).

Pk	Cat. No.
10 g	A1837.0010
25 g	A1837.0025
100 g	A1837.0100

#### **Cell Culture**

Cell Culture - Media and Supplements

### **PCR Mycoplasma Test Kit**

#### **AppliChem**

Ready-to-use PCR Mix for the detection of mycoplasma in cell culture

The PCR Mycoplasma Test Kit is designed to detect the presence of mycoplasma-contaminating biological materials, such as cultured cells. Mycoplasma detection by the direct culture procedure is time-consuming and some mycoplasma species are difficult to cultivate. With PCR testing, results are obtained within a few hours, since the presence of contaminant mycoplasma can be easily detected simply by verifying the bands of amplified DNA fragments in electrophoresis. There is no need to prepare probes labelled with radioisotopes, or to calculate enzyme, dNTP's or buffer concentrations. Instead, a ready-to-use, optimised PCR mix is supplied. The primer set allows detection of various mycoplasma species (*M. fermentans, M. hyorhinis, M. arginini, M. orale, M. salivarium, M. hominis, M. pulmonis, M. arthridtidis, M. bovis, M. pneumoniae, M. pirum, M. capricolum*) as well as *Acholeplasma* and *Spiroplasma* species, with high sensitivity and specificity.

Description	Pk	Cat. No.	
PCR Mycoplasma Test Kit, 10 tests	1 Kit	A3744.0010	•
PCR Mycoplasma Test Kit, 20 tests	1 Kit	A3744.0020	

# Myco-3 AppliChem

392.65

For the treatment of Mycoplasma-infected cells.

Myco-3 is a 100x concentrated solution based on the ciprofloxacin antibiotic, which is a member of the fluoroquinolone group. Many mycoplasma species have been found to be sensitive to Myco-3, including *A. laidlawii, M. orale, M. hyorhinis, M. fermentans, and M. arginini.* These species are responsible for most of the contamination in cell culture. At the concentrations recommended for use (1 µg/ml), no cytotoxic effects have been found, and the treatment is easy to perform. The pH value of Myco-3 is acidic (pH 4-5). When added to medium the pH change is negligible.

Pk	Cat. No.	
10 ml	A5240.0010	
20 ml	A5240.0020	
100 ml	A5240.0100	

